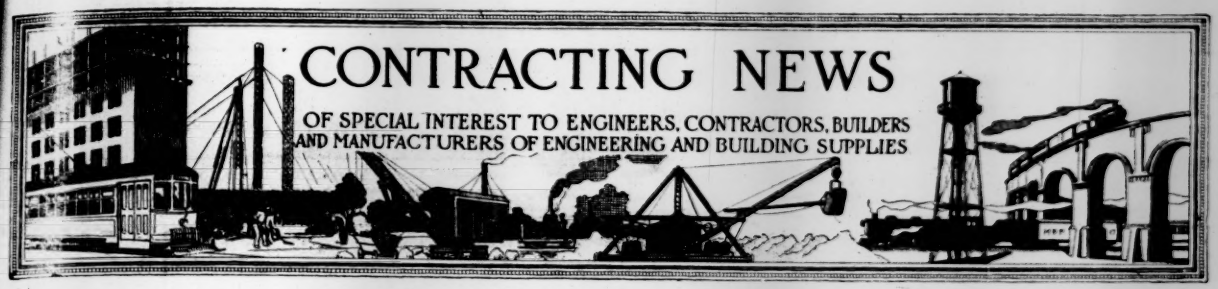
CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Price advances are indicated by **heavy type**; declines by *italics*.

PIG IRON

Below are the present quotations with a comparison of a month and a year ago.

	Sept. 1, 1917	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$49.90	$49.90	$16.90
No. 2 Southern Ohio	56.26	56.26	19.26
NEW YORK			
No. 2X Northern foundry	*52.50*	54.25	19.50
No. 2 plain Northern foundry	*52.00*	53.75	19.25
No. 2 Southern foundry†	*52.25*	52.75	19.25
BIRMINGHAM			
No. 2 Southern foundry	47.00	47.00	14.00
CHICAGO			
No. 2 Northern foundry	55.00	55.00	18.00
No. 2 Southern foundry	54.00	....	....
PITTSBURGH			
Bessemer iron*	*52.95*	55.95	21.95
Basic iron*	*50.95*	53.95	18.95

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered Tidewater, New York.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f.o.b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago*	
	Sept. 1, 1917	One Year Ago	Sept. 1, 1917	One Year Ago
Standard bessemer rails	$38.00	$33.00	$38.00	$33.00
Standard openhearth rails	40.00	35.00	40.00	35.00
Light rails, 8 to 10 lb.	83.00 to 84.00	50.00	95.00 to 100.00	43.00
Light rails, 12 to 14 lb.	82.00 to 83.00	49.00	95.00 to 100.00	42.00
Light rails, 25 to 45 lb.	75.00 to 80.00	47.00	95.00 to 100.00	40.00

*Activity in rails principally governmental.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Pittsburgh				San
	Sept. 1, 1917	One Year Ago	Chicago	St. Louis	Francisco
Standard railroad spikes, ½ in. and larger	$7.00	$2.65	$5.00	$5.75	$5.75
Track bolts	7.00	3.25	6.25	Premium	7.30
Standard section angle bars	3.65	2.00	4.50	Premium	4.65

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

	Material	6 In. x 8 in. by 8 Ft.	7 In. x 9 in. by 8 Ft. 6 In.
New York	Yellow Pine	$1.06 to 1.11	$1.25
St. Louis	No. 1 White Oak	1.00	.75
Chicago	White Oak	.97	.82
San Francisco	Green	.77	1.01
San Francisco	Creosoted	1.20	1.62

PIPE

PIPE—The following discounts are for carload lots f.o.b. Pittsburgh, as per basing card of July 2, 1917:

BUTT WELD

Steel			Iron		
Inches	Black	Galvanized	Inches	Black	Galvanized
¾ to 3	49%	35½%	¾ to 1½	33%	17%

LAP WELD

2	42%	29½%	2	26%	12%
2½ to 6	45%	32½%	2½ to 4	28%	15%
7 to 12	42%	28½%	4½ to 6	28%	15%
13 and 14	32½%	....	7 to 12	25%	12%
15	30%	....			

BUTT WELD, EXTRA STRONG PLAIN ENDS

¾ to 1½	47%	34½%	¾ to 1½	33%	18%
2 to 3	48%	35½%			

LAP WELD, EXTRA STRONG PLAIN ENDS

2	40%	28½%	2	27%	14%
2½ to 4	43%	31½%	2½ to 4	29%	17%
4½ to 6	42%	30½%	4½ to 6	28%	16%
7 to 8	38%	24½%	7 to 8	20%	8%
9 to 12	35%	19½%	9 to 12	15%	3%

From warehouses at the places named the following discounts hold for steel pipe:

	Black		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	38%	12.8%	34.27%
3½ to 6 in. lap welded	18%	38.8%	27.27%
7 to 12 in. lap welded	10%	35.8%	21.27%

	Galvanized		
	New York	Chicago	St. Louis
¾ to 3 in. butt welded	22%	27.8%	19.27%
3½ to 6 in. lap welded	List	24.8%	13.27%
7 to 12 in. lap welded	List	20.8%	6.27%

Malleable fittings, Class B and C, from New York stock sell at 5 and 5% from list prices. Cast iron, standard sizes, 34 and 5%.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	New York							
	Sept. 1, 1917	1 Mo. Ago	One Yr. Ago	Birmingham	Chicago	St. Louis	San Francisco	Dallas
4 in.	$68.50	$68.50	$33.50	$63.00	$68.50	*$64.00*	$76.00	$72.00
6 in. and over	65.50	65.50	30.50	60.00	65.50	*61.00*	73.00	69.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

	New York					
Size, In.	Sept. 1, 1917	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$35.00	$24.80	$18.40	$15.00	$26.25	$19.80
4	51.00	33.95	20.70	18.00	33.75	28.10
5	65.00	47.50	28.75	23.00	48.75	....
6	90.00	59.75	40.25	27.00	67.50	45.95
8	130.00	100.00	74.75	55.00	....	82.75

SEWER PIPE—The following prices are in cents per foot for carload lots:

	New York					
Size, In.	Sept. 2, 1917	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	*$0.093*	$0.0725	.....	$0.09	**$0.075**	$0.1032
4	*.093*	.0725	.....	.10	**.10**	.1032
5	*.1395*	.12	.....	.135	**.125**	.1548
6	*.1395*	.12	$0.12	.15	**.15**	.1548
8	*.217*	.165	.165	.21	**.2256**	.215
10	*.3255*	.24	.23	.315	**.30**	.301
12	*.4185*	.30	.33	.405	**.40**	.387
15	*.558*	.405	.50	.54	.....	.559
18	*.775*	.57	.75	.75	.75	.731
20	*.93*	.675	.90	.90	.9025	.86
22	*1.24*	.90	1.13	1.20	1.155	1.118
24	*1.395*	.975	1.28	1.35	1.375	1.29
27	*2.08*	1.665	1.30	....	.....	1.935
30	*2.30¼*	2.035	1.70	....	.....	2.365
33	*3.06*	2.625	2.25	....	.....	3.05
36	*3.485*	2.94	2.50	....	.....	3.44

	Kansas City	Los Angeles	New Orleans	Boston	Denver
3	*$0.10*	$0.06	**$0.056**	*$0.111*	$0.07
5	*.135*	.10	**.0875**	*.1665*	.12*
8	.18	.18	**.16**	*.259*	.19
12	.36	.32	**.3145**	*.4995*	.31
24	1.35	1.125	**1.20**	*1.665*	1.14
36	3.25	.....	.....	*3.5875*	2.10†

*6-in. †30-in.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices in tank cars 8000 gal. minimum f.o.b. places named:

	Sept. 1, 1917 Gallon	One Month Ago Gallon
New York, 40-50% asphalt	....c.*	6½c.
New York, 60-70% asphalt	....c.*	7c.
New York, dust layer	....c.*	7¼c.
New York, binder	....c.*	8¼c.
St. Louis, 45-50% asphalt	5c.	5c.
Chicago, 15-20% asphalt	6½c.	....
Chicago, dust layer	8½c.	....
Chicago, binder	12½c.	....
Dallas, 40-50% asphalt	6c.	7c.
Dallas, 60-70% asphalt	7c.	8c.
Dallas, 75-90% asphalt	8c.	....
San Francisco, 75-95% asphalt	$1.90 bbl. (42 gal.)	$1.90 bbl.

*Road oils are extremely scarce in New York and no quotations are available.

ASPHALTUM—Price per ton in packages and bulk in carload lots:

	Brand	Package	Bulk
New York	Texaco	$30.00	....
Chicago	Mexican	24.00	20.00
St. Louis	Texaco or Mexican	22.50	19.50
San Francisco	California	14.50	12.50
Dallas	Texaco and Mexican	....	20.00
Denver	California	*21.00*	....
Denver	Trinidad	*31.00*	....
Kansas City	Trinidad	26.37	....

PAVING STONE—

		Sept. 1, 1917
New York	Manhattan	$2.50 sq.yd.
	Other boroughs	2.25 sq.yd.
Boston	5-in. granite	2.55 sq.yd.
Chicago	About 4x8x4 dressed	2.25 sq.yd.
	About 4x8x4 common	1.80 sq.yd.
Kansas City	Limestone	3.00 sq.yd.
San Francisco	Basalt block 4x7x8	57.75 per M

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York*	3½	16	$2.00
New York*	4	16	2.25
Chicago	4	16	1.85
Chicago	City specifications		*1.70*
St. Louis	3½	16	
	City specifications		**2.00**
	Other specifications		1.60
Boston	4	20	**2.62**
Kansas City	4	16	**2.25**
New Orleans	4	16	2.85

*Very scarce.

FLAGGING—

		Sept. 1. 1917
New York	Bronx	$0.17 sq.ft.
	Manhattan	.18 sq.ft.
	Queens, 5 ft. square	.19 sq.ft.
Chicago	18 in. wide	.75 lin.ft.
San Francisco	Basalt, 4x7x8 in.	57.50 per M

CURBING—Prices per linear foot are as follows:

New York	5 x 16	$0.45
	5 x 20	.50
Chicago	6 x 18	.60
St. Louis	5 x 16 square edge	.72
	5 x 16 bull nose	.78
San Francisco	5 x 16	.75
	5 x 20	.85

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel				Sand	
		1½ In.		¾ In.		
	Paving	Sept. 1. 1917	One Yr. Ago	Sept. 1. 1917	One Yr. Ago	Sept. 1. 1917	One Yr. Ago
New York	$1.25	$1.25	$1.00	$1.35	$1.10	$0.50	$0.50
Chicago	1.40	1.40	1.15	1.40	1.15	**1.40**	1.15
St. Louis	....	1.08	.70	1.08	.70	1.08	.60
Dallas	....	1.50	....	1.50	....	1.10	....
San Francisco	....	1.00	1.25	1.00	1.25	1.00	1.20
New Orleans	....	**1.90**	....	2.25	....	1.25	....
Denver	....	*1.40*	....	*1.40*	....	.95	....
Kansas City	....	2.00	....	2.25	....	.60	....
Boston	....	1.50	....	1.60	....	.80	....
Los Angeles	....	.85	....	.85	....	.55	....

Fine White Sand—St. Louis:

Pacific.....$5.00 per ton Ottawa.....$7.00 per ton

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In.		¾ In.	
	Sept. 1. 1917	One Year Ago	Sept. 1. 1917	One Year Ago
New York	$1.10	$0.90	$1.25	$0.95
Chicago	1.40	.95	1.40	.95
St. Louis	1.35	1.00	1.35	1.00
Dallas	1.42	....	....	....
San Francisco	1.00	1.25	1.00	1.25
Denver	*1.40*	....	*1.40*	....
Boston	1.40	....	1.40	....
Kansas City	**1.60**	....	**1.70**	....
Los Angeles	.95	....	.95	....

LIME—Warehouse prices:

	Hydrated per Ton		Lump per 300-Lb. Barrel	
	Finished	Common	Finished	Common
New York	$16.50	$13.25	$2.10	$1.90
Chicago	15.00	12.00	1.90	....
St. Louis	12.00	10.75	....	....
Dallas	20.00	15.00	....	....
San Francisco—				
Washington hand	17.00	....	....	1.65
California hand	13.50	....	....	....

ROSENDALE NATURAL CEMENT—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York.....$1.15

30c. allowed for bags.

PORTLAND CEMENT—These prices are for barrels in carload lots, including bags:

	Sept. 1. 1917	One Month Ago	One Year Ago
New York	$2.22	$2.22	$1.75
Jersey City	2.16	2.16	1.66
Boston	2.77	2.77	1.92
Chicago	*2.21*	2.31	1.86
Pittsburgh	2.31	2.31	1.81
Cleveland	2.44	2.44	1.94
Detroit	2.40	2.40	1.90
Indianapolis	*2.38*	2.44	1.99
Toledo	*2.40*	2.44	1.99
Milwaukee	*2.33*	2.43	1.98
Minneapolis	*2.48*	2.58	2.13
Duluth	2.51	2.51	2.06
Peoria	*2.33*	2.43	1.94
Cedar Rapids	*2.48*	2.54	2.05
Davenport	*2.40*	2.49	1.95
St. Louis	2.45	2.45	1.85
San Francisco	2.30	2.30	....
Dallas	*2.15*	2.30	2.30
Los Angeles	2.30	2.15	....
New Orleans	*2.54*	2.58	....
Kansas City	2.77	2.29	....
St. Paul	*2.48*	2.63	....

TRIANGLE MESH REINFORCEMENT—Price per 100 sq.ft. in carload lots:

PLAIN 4-IN. x 4-IN. MESH

Style Number	Sectional Area Square Inches per Foot Width	Pitts-burgh	New York	Chicago	St. Louis	Dallas	San Fran-cisco
032	0.032	$0.89	$0.92	$0.93	$0.94	$1.06	$1.27
049	0.049	1.13	1.18	1.18	1.20	1.34	1.63
068	0.068	1.42	1.47	1.49	1.50	1.68	2.04
093	0.093	1.82	1.89	1.91	1.92	2.17	2.62
126	0.126	2.31	2.39	2.42	2.44	2.74	3.32
153	0.153	2.75	2.86	2.88	2.91	3.27	3.96
180	0.180	3.16	3.27	3.31	3.34	3.76	....
245	0.245	4.17	4.33	4.38	4.41	4.96	....
287	0.287	4.82	5.00	5.04	5.10	5.72	6.94
336	0.336	5.55	5.80	5.85	5.92	6.66	....

PLAIN 4-IN. x 8-IN. MESH

036P	0.036	.69	.71	.72	.73	.82	....
053P	0.053	.97	1.01	1.02	1.03	1.16	....
072P	0.072	1.26	1.30	1.32	1.33	1.50	....
097P	0.097	1.62	1.68	1.70	1.71	1.93	....
049R	0.049	.97	1.01	1.02	1.03	1.15	....
067R	0.067	1.26	1.30	1.32	1.33	1.50	....
089R	0.089	1.62	1.68	1.70	1.71	1.93	....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths.

Galvanized runs about 10% higher than plain.

EXPANDED METAL LATH—Prices per 100 yd. for painted are as follows:

Carload

Gage	Weight	New York Sept. 1. 1917	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
27	233	$31.00	$18.00	$31.00	$34.00	$29.00	$32.00
26	250	32.05	19.00	32.00	35.00	30.25	....
25	300	33.15	20.00	33.00	....	....	....
24	340	34.25	21.00	34.00	37.00	33.00	36.00
22	450	36.45	24.00	36.00	....	....	....

About 10% additional for smaller quantities.

BARS, CONCRETE REINFORCING—The following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Shipment	Warehouse New York Sept. 1. 1917	New York One Year Ago	St. Louis	Chicago	San Fran-cisco	Dallas
¾ and larger	*	$5.10	$3.25	$4.736	$4.50	$6.00	$4.75
⅝	*	5.15	3.35	4.786	4.55	6.05	4.80
½	*	5.20	3.40	4.836	4.60	6.10	4.85
⅜	*	5.35	3.65	4.986	4.75	6.25	5.00
¼	*	5.60	4.00	5.236	5.00	6.50	6.00

*Mill quotations on actual specifications.

ROLLED FROM RAILS

	Dallas	St. Louis	Chicago
¾ in. and larger	$4.75	$4.00	$4.50
⅝	4.80	4.05	4.55
½	4.85	4.10	4.60
⅜	5.00	4.25	4.75
¼	**6.00**	5.00	5.00

BRICK—The price per 1000 in cargo or carload lots is as follows:

	Common Sept. 1. 1917	Common One Month Ago	Common One Year Ago	Paving Brick	Paving Block
New York	$8.50	$8.50	$7.75	....	....
Boston	13.25	13.25	....	....	$25.00
Chicago	8.00	8.00	6.00	$16.00	24.00
St. Louis, salmon	**8.00**	7.00	9.00	18.00	....
St. Louis, selected	10.00	10.00	9.00	....	....
Denver	8.00	8.00	....	....	14.00
Los Angeles	7.50	....	....	....	28.00
San Francisco	10.00	10.00	10.00	....	....
Dallas	8.10	8.10	....	22.00	22.50
New Orleans	9.00	9.00	....	....	*10.50
Kansas City	11.00	11.00	....	....	20.00

*Silica brick for foundations.

HOLLOW TILE—Hollow building tile price per block in cents:

	New York Sept. 1. 1917	New York One Year Ago	Chicago	St. Louis	San Francisco	Dallas
4x12x12	$0.0925	$0.065	$0.079	$0.054	$0.0825	$0.07
6x12x12	.1295	.091	.12	.066	.11	.09
8x12x12	.15725	.11	.135	.09	.1275	.12
10x12x12	.185	.13	.16	.15	.20	.15
12x12x12	.23125	.1625	.20	.18	.22	.18

	4x12x12	8x12x12	12x12x12
Boston	$0.0957	$0.171	$0.2266
Kansas City*	.0595	.1125	.1575
Denver	.09	.17	.25
New Orleans	.0892	.1417	.1863
Los Angeles*	.05	.10	.165

*In quantities of 1000.

STRUCTURAL MATERIAL—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Pitts-burgh	New York Sept. 1, 1917	New York 1 Yr. Ago	St. Louis	Chi-cago	San Fran-cisco	Dallas
Beams, 3 to 15 in.	$4.50	$5.25	$3.25	$5.05	$5.00	$7.75	$6.00
Channels, 3 to 15 in.	4.60	5.25	3.25	5.05	5.00	7.75	6.00
Angles, 3 to 6 in., ¼ in. thick	4.50	5.25	3.25	5.05	5.00	7.75	*6.00*
Tees, 3 in. and larger	4.50	5.30	3.30	5.05	5.05	7.75	*6.00*
Plates	**10.00**	**10.00**	4.00	**10.05**	**10.00**	10.00	9.00

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill, Pittsburgh	Warehouse New York	Chicago	St. Louis	San Francisco	Dallas
¾ in. and larger	$5.25	$7.00	$5.50	$5.55	**$7.15**	$8.40
CONE HEAD BOILER						
¾ in. and larger	5.35	7.10	5.60	5.65	7.25	8.50
⅝ and ⅞	5.50	7.25	5.75	5.80	7.40	8.65
½ and ⅝	5.85	7.60	6.10	6.15	7.75	9.00

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

	1-Ply c.l.	1-Ply l.c.l.	2-Ply c.l.	2-Ply l.c.l.	3-Ply c.l.	3-Ply l.c.l.
No. 1 grade	$1.25	$1.40	$1.45	$1.60	$1.75	$1.90
No. 2 grade	1.10	1.25	1.25	1.40	1.50	1.65

Asbestos asphalt-saturated felt (14 lb. per square) costs $6.50 per 100 lb.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $1.85 per roll in carload lots and $2.10 for smaller quantities.

Shingles, red and green slate finish, cost $4.75 per square in carloads, $5 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York or Chicago:

	Carload Lots	Less Than Carload Lots
Tar felt (14 lb. per square of 100 sq.ft.)	$61.00	$62.00
Tar pitch (in 400-lb. bbl.)	15.00	16.50
Asphalt pitch (in barrels)	29.00	30.50
Asphalt felt	60.00	62.00

SHEETS—Price in cents per pound:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Sept. 1, 1917	New York One Yr. Ago
No. 10	8.00 to 9.00	10.05	10.00	11.00	10.00	4.25
No. 12	8.05 to 9.05	10.10	10.05	11.05	10.05	4.30
No. 14	8.10 to 9.10	10.15	10.10	11.10	10.10	4.35
Black						
Nos. 18 and 10	7.80 to 8.80	10.15	9.80	11.07	10.30	3.45
Nos. 22 and 24	7.85 to 8.85	10.20	9.85	11.12	10.35	3.50
No. 26	7.90 to 8.90	10.25	9.90	11.12	10.40	3.55
No. 28	8.00 to 9.00	10.35	10.00	11.37	10.50	3.65
Galvanized						
No. 10	9.00 to 10.00	10.95	10.70	....	....	....
No. 12	9.10 to 10.10	10.95	10.70	12.15	....	4.10
No. 14	9.10 to 10.10	10.95	10.70	12.15	....	4.10
Nos. 18 and 20	9.40 to 10.40	11.15	11.00	12.45	11.40	4.40
Nos. 22 and 24	9.55 to 10.55	11.30	11.15	12.59	*11.55*	4.55
No. 26	9.70 to 10.70	11.45	11.30	12.74	*11.70*	4.70
No. 28	10.00 to 11.00	11.75	11.50	13.03	*12.00*	5.00

LINSEED OIL—These prices are per gallon:

	New York Sept. 1, 1917	New York One Year Ago	Cleveland Sept. 1, 1917	Cleveland One Year Ago	Chicago Sept. 1, 1917	Chicago One Year Ago
Raw in barrels	$1.26	$0.75	$1.30	$0.75	$1.27	$0.75
5-gal. cans	1.36	.85	1.40	.85	1.37	.85

WHITE AND RED LEAD in 500-lb. lots sell as follows in cents per pound:

	Red Sept. 1, 1917 Dry	Red Sept. 1, 1917 In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Sept. 1, 1917 Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	13.25	13.50	10.50	11.00	13.00	10.50
25- and 50-lb. kegs	13.50	13.50	10.75	11.25	13.25	10.75
12½-lb. keg	13.75	14.00	11.00	11.50	13.50	11.00
1- to 5-lb. cans	15.25	15.50	12.50	12.50	15.50	12.50

LUMBER*—Price per M in carload lots:

Square Edge and Sound Green

	Southern Pine New York 20 Ft. and Under	Southern Pine New York 22-24 Ft.	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft.	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
3x 4 to 8x 8	$33.75	$34.75	$31.75	$32.75	$28.75	$29.75
3x10 to 10x10	35.75	36.75	33.75	34.75	30.75	31.75
3x12 to 12x12	38.75	39.75	36.75	37.75	33.75	34.75
3x14 to 14x14	41.75	42.75	39.75	40.75	36.75	37.75
3x16 to 16x16	46.75	47.75	44.75	45.75	41.75	42.75
3x18 to 18x18	51.75	52.75	49.75	50.75	46.75	47.75
4x20 to 20x20	56.75	57.75	54.75	55.75	51.75	52.75

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

*Prices from Lumberman's Bureau.

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$23.00	$24.50	$25.50
3 and 4x6 and 8	23.00	23.50	24.50
6x6 to 8x8	23.50	24.50	24.50
3 and 4x10	23.00	24.50	25.50
6 and 8x10	24.00	25.00	25.00
10x10	24.00	24.00	26.00
3 and 4x12	24.00	24.50	25.50
6 and 8x12	24.50	23.50	23.50
10 and 12x12	24.00	24.00	26.00
3 and 4x14	24.00	26.00	27.00
6 and 8x14	25.50	26.50	26.50
7 and 9x14	26.50	27.50	27.50
10 and 12x14	25.00	25.00	27.00
14x14	24.00	24.00	26.00
3 and 4x16	25.00	27.50	28.50
6 and 8x16	27.00	28.00	28.00
7 and 9x16	28.00	29.00	29.00
10 and 12x16	26.00	26.00	28.00
14 and 16x16	24.00	24.00	26.00
3 and 4x18	26.00	29.00	31.00
6 and 8x18	27.50	30.00	30.00
7 and 9x18	28.50	31.00	31.00
10 and 12x18	27.00	27.00	29.00
14 and 16x18	25.00	25.00	27.00
18x18	26.00	26.00	28.00
3 and 4x20	28.00	30.50	32.50
6 and 8x20	29.50	32.00	32.00
10 and 12x20	28.00	28.00	30.00
14 and 16x20	26.00	26.00	28.00
18 and 20x20	27.00	27.00	29.00

Yellow Pine—Dallas. Price per M:

2x4 to 2x12—12 to 16 ft. long	$32.50
2x4 to 2x12—10, 18 and 20 ft. long	35.00
2x4 to 2x12—22 and 24 ft. long	37.50
4x4, 4x6, 6x6, 8x8, 3x8	37.50
8x10, 10x10, 3x10	40.00
12x12, 3x12	40.00

	1-In. Rough, 10 In. x 16 Ft. and Under Y.P.	1-In. Rough, 10 In. x 16 Ft. and Under Fir	1-In. Rough, 10 In. x 16 Ft. and Under Hemlock	2-In. T. and G. 10 In. x 16 Ft. Y.P.	2-In. T. and G. 10 In. x 16 Ft. Fir
Kansas City	$44.00	$44.50	$43.00	$52.00	....
New Orleans	38.00	....	....	36.00	....
Denver	....	30.00	30.00	....	$30.00

Note—In Los Angeles only fir, hemlock and redwood used. Hemlock base is $35; fir is $30. In Boston the lumber market is demoralized.

	8 x 8-In. x 20 Ft. and Under Y.P.	8 x 8-In. x 20 Ft. and Under Fir	8 x 8-In. x 20 Ft. and Under Hemlock	8 x 8-In. x 20 Ft. and Under Spruce	12 x 12-In. 20 Ft. and Under Y.P.	12 x 12-In. 20 Ft. and Under Fir
Kansas City	$39.00	$35.00	$35.00	....	$45.00	$35.00
New Orleans	28.00	....	....	....	38.00	....
Denver	....	30.00	....	*$27.50*	....	32.00

NAILS—The following quotations are per keg from warehouse:

	Pittsburgh	St. Louis	Chicago	San Francisco	Dallas
Wire	$4.00	*$4.00*	$4.45	$4.60	$4.45
Cut	4.65	5.00	4.60	6.15	....

MISCELLANEOUS

FREIGHT RATES—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Boston	21.5	New Orleans	30.7
Buffalo	11.6	New York	19.5
Chicago	18.9	Pacific Coast (all rail)	75.0
Cincinnati	15.8	Philadelphia	18.5
Cleveland	10.5	St. Louis	23.6
Denver	68.6	St. Paul	32.9
Kansas City	43.6		

WATER TREATMENT CHEMICALS—Prices per pound are as follows:

	New York	Chicago
Sulphate of alumina (iron free), in 400-lb. barrel	$0.045	.....
Hypochlorite of lime (bleaching powder), in 700-lb. drums	.03	$0.0375 to .04
Soda ash, in 400-lb. bbl.	.05	.0375 to .04
Liquid chlorine (spot orders)	.175	.16 to .18

Lime is quoted separately, on next page.

CONTRACTORS' MISCELLANEOUS SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Sept. 1, 1917	One Month Ago	One Year Ago
$4.50 to $5.00	$4.50 to $5.00	$2.50

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	10—2½%	10—2½%	10—2½%	15%
Bright	20—2½%	20—2½%	20—2½%	10%

MANILA ROPE—For rope smaller than ⅜-in. the price is ½ to ¾c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ⅜-in., 8 ft.; ½-in., 6; ⅝-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ⅜-in. and larger, in 1200-ft. coils:

Boston	$0.34	Kansas City	$0.31½
New York	.33½	New Orleans	.31
Chicago	.31½	Los Angeles	.30
Denver	.31½		

EXPLOSIVES—Price per pound in 200-lb. lots at cities named:

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%
New York	.....	$0.26½	$0.33½	.....
Boston	.....	.....	.33¼	$0.40¾
Kansas City	$0.19	.25¼	.32¼	.42¼
New Orleans	.....	.24¼	.29¼	.....
Los Angeles	.19	.25	.32¼	.....
Chicago	.18¾	.22¾	.32¼	.42
St. Louis	.15¼	.19¼	.28½	.38½
Denver	.18	.24¼	.31¼	.41¼
Dallas	.24	.28	.38	.48

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York Sept. 1, 1917	New York One Month Ago
Heavy melting steel scrap	*$27.50 to 28.50*	$29.00
No. 1 railroad wrought	*39.00 to 40.00*	42.00
Stove plate	*18.00 to 20.00*	20.00
No. 1 machinery cast	*30.00 to 31.00*	34.00
Machine shop turnings	*16.00 to 18.00*	18.00
Cast borings	19.00 to 20.00	18.00
Railroad malleable cast	*30.00 to 32.00*	33.00

	Chicago Sept. 1, 1917	Chicago One Month Ago
No. 1 railroad wrought	$36.00	$35.00
Stove plate	*17.25 to 18.00*	18.50
No. 1 machinery cast	*25.00 to 26.00*	28.50
Machine shop turnings	17.00 to 17.50	17.00
Cast borings	17.00 to 17.50	17.50
Railroad malleable cast	30.00 to 32.00	29.00

	St. Louis Price Delivered Sept. 1, 1917	St. Louis Price Delivered One Month Ago
Heavy melting steel scrap	*$30.00 to 30.50**	$37.00
No. 1 railroad wrought	*33.00 to 33.50*	36.00
Stove plates	*16.50 to 17.00*	18.00
No. 1 machinery cast	*23.00 to 23.50*	25.00
Machine shop turnings	*14.50 to 15.00*	19.00
Cast borings	*14.00 to 14.50*	17.50
Railroad malleable cast	*27.00 to 27.50*	29.50

*Per gross ton.

Proposals

For Proposals Advertised See Pages 87 to 92 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
Sept. 10.	Cumberland, Md. Adv. Aug. 16 to 30.	Aug. 16
Sept. 10.	Tonawanda, N. Y. Adv. Sept. 6.	Sept. 6
Sept. 11.	New York, N. Y. Adv. July 12 to Aug. 23.	July 12
Sept. 12.	Kansas City, Mo. Adv. Aug. 23 and 30.	Aug. 23
Sept. 13.	Cleveland, O.	Aug. 30

SEWERS

Sept. 11.	Montclair, N. J. Adv. Sept. 6.	Sept. 6
Sept. 11	Clinton, Ia.	Sept. 6
Sept. 11.	Oklahoma, Okla.	Sept. 6
Sept. 15.	Hillsboro, Ill.	Aug. 16
Sept. 12.	Springfield, Ohio	Sept. 6
Sept. 17.	Cleveland Heights, O.	Aug. 30

BRIDGES

Sept. 8.	Martinsburg, W. Va.	Sept. 6
Sept. 10.	Omaha, Neb.	Aug. 23
Sept. 10.	Akron, O.	Aug. 23
Sept. 10.	Bryan, O.	Aug. 30
Sept. 10.	Scarsdale, N. Adv. Sept. 6.	Sept. 6
Sept. 11.	Lynn, Mass. Adv. Sept. 6	Sept. 6
Sept. 11.	Modesto, Cal.	Aug. 30
Sept. 11.	Bradentown, Fla.	Aug. 16
Sept. 12.	Youngstown, Ohio	Sept. 6
Sept. 13.	Excelsior Springs, Mo.	Aug. 30
Sept. 15.	Guthrie Okla.	Aug. 30
Sept. 15.	Jacksonville, Ore.	Sept. 6
Sept. 17.	Woonsocket, R. I. Adv. Sept. 6.	Sept. 6
Sept. 18.	Santa Ana, Cal.	Sept. 6
Sept. 20.	Du Bois, Pa.	Sept. 6
Sept. 20.	Butler, Pa. Adv. Sept. 6.	Sept. 6
Oct. 2.	Albany, N. Y. Adv. Sept. 6.	Sept. 6

STREETS AND ROADS

Sept. 10.	Washington	Aug. 30
Sept. 10.	Wallace, Idaho	Aug. 30
Sept. 10.	Cherokee, Ia.	Sept. 6
Sept. 10.	Mankato, Minn.	Sept. 6
Sept. 10.	Louisa, Ky.	Sept. 6
Sept. 10.	Trenton, N. J.	Sept. 6
Sept. 10.	Quincy, Mass.	Sept. 6
Sept. 11.	Concordia, Kan.	Sept. 6
Sept. 11.	Sacramento, Cal.	Aug. 30
Sept. 11.	Buffalo, Minn.	Sept. 6
Sept. 12.	Kansas City, Mo.	Sept. 6
Sept. 12.	Springfield, Ohio	Sept. 6
Sept. 12.	Indianapolis, Ind.	Sept. 6
Sept. 12.	Rhode Island Adv. Sept. 6.	Sept. 6
Sept. 14.	Parkersburg, W. Va.	Sept. 6
Sept. 15.	Visalia, Cal.	Aug. 30
Sept. 16.	Pocatello, Idaho	Sept. 6
Sept. 17.	Indianapolis, Ind.	Sept. 6
Sept. 18.	Morrison, Ill.	Sept. 6
Sept. 19.	Seattle, Wash.	Aug. 23
Sept. 18.	Hohenwald, Tenn.	Aug. 23
Sept. 20.	Albany, N. Y. Adv. Sept 6.	Sept. 6
Sept. 20.	New York, N. Y.	Sept. 6
Sept. 21.	Charleston, W. Va.	Sept. 6
Sept. 22.	Cameron, La.	Aug. 30
Sept. 24.	Eutaw, Ala.	Sept. 6
Sept. 24.	Livingston, Ala.	Sept. 6
Sept. 25.	Carrollton, Ala.	Sept. 6
Sept. 30.	Indianapolis, Ind.	Sept. 6
Oct. 1.	Lincoln, Neb.	Sept. 6
Oct. 16.	Cape May, N. J.	Sept. 6

EXCAVATION AND DREDGING

Sept. 10.	Walker, Minn.	Aug. 30
Sept. 10.	Walker, Minn.	Sept. 6
Sept. 10.	Carrollton, Ia.	Sept. 6
Sept. 12.	New York, N. Y.	Sept. 6
Sept. 12.	New Orleans, La.	Aug. 23
Sept. 12.	Hampton, Ia.	Aug. 30
Sept. 15.	Angola, Ind.	Sept. 6
Sept. 18.	Moorhead, Minn.	Sept. 6
Sept. 21.	Modesto, Cal.	Sept. 6
Sept. 21.	Paxton, Ill.	Sept. 6
Oct. 2.	St. Cloud, Minn.	Aug. 2
Oct. 2.	Urbana, Ill.	Sept. 6

INDUSTRIAL WORKS

Sept. 12.	Ogdensburg, N. Y. Adv. Sept 6.	Sept. 6

BUILDINGS

Sept. 7.	Albany, N. Y. Adv. Aug. 16 to Sept. 6.	Aug. 23
Sept. 10.	Bridgeport, Conn.	Aug. 30
Sept. 10.	Akron, O.	Aug. 30
Sept. 10.	El Paso, Tex.	Sept. 6
Sept. 10.	Crawfordsville, Ind.	Sept. 6
Sept. 12.	Virginia, Minn.	Sept. 6
Sept. 13.	Upper Sandusky, Ohio	Aug. 30
Sept. 13.	Letts, Ia.	Sept. 6
Sept. 15.	Oklahoma, Okla.	Aug. 16
Sept. 15.	Spirit Lake, Ia.	Aug. 9
Sept. 15.	Bathhurst, N. B.	Aug. 30
Sept. 15.	Cleveland Heights, Ohio (Warrensville P. O.)	Sept. 6
Sept. 21.	Chester, Pa.	Sept. 6

FEDERAL GOVERNMENT WORK

Sept. 10.	Annapolis, Md.	Aug. 30
Sept. 10.	Pearl Harbor Hawaii	Aug. 30
Sept. 10.	Norfolk, Va.	Sept. 6
Sept. 10.	Philadelphia, Pa.	Sept. 6
Sept. 10.	Detroit, Mich.	Sept. 6
Sept. 11.	Vicksburg, Miss. Adv. Sept. 6.	Sept. 6
Sept. 12.	Vicksburg, Miss. Adv. Sept. 6.	Sept. 6
Sept. 12.	Raton, N. M.	Aug. 23
Sept. 12.	Long Island City, N. Y.	Aug. 9
Sept. 17.	Tampa, Fla.	Sept. 6
Sept. 12.	Wilmington, Del.	Sept. 6
Sept. 24.	Farmington, N. M.	Sept. 6
Sept. 26.	Memphis, Tenn. Adv. Sept. 6.	Sept. 6
Oct 30.	Key West, Fla. Adv. Sept. 6.	Sept. 6
Oct 1.	Cleveland, Ohio	Sept. 6
Oct 2.	San Francisco, Cal.	Sept. 6
Oct. 4.	St. Peter, Minn.	Sept. 6
Sept. 18.	Cape Henry, Va. Adv. Aug. 30 and Sept 6.	Aug. 30
Sept. 21.	Kendallville, Ind. Adv. Aug. 16 and 23.	Aug. 16
Sept. 25.	Washington, D. C. Adv. Aug. 30.	Aug. 30
Oct. 1.	Twin Falls, Idaho	Aug. 30

MISCELLANEOUS

Sept. 8.	Creek Improvements—Lancaster, O.	Sept. 6
Sept. 10.	Dam and Retaining Walls—Marshalltown, Ia.	Aug. 30
Sept. 10.	Retaining Wall—Lebanon, O.	Aug. 30
Sept. 10.	Dock—Georgetown, Wash.	Aug. 30
Sept. 10.	Piling—Columbus, O.	Sept. 6
Sept. 10.	Dock—Seattle, Wash.	Sept. 6
Sept. 10.	Garbage Incinerator—Waukegan, Ill. Adv. Sept. 6.	Sept. 6
Sept. 11.	Electric Work — Farmingdale, N. Y. Adv. Sept. 6.	Sept. 6
Sept. 12.	Freight Conveyors — Albany, N. Y. Adv. Sept. 6.	Sept. 6
Sept. 17.	Retaining Wall — Newton, N. J.	Sept. 6
Sept. 19.	Flood Protection—Corning, N. Y. Adv. Sept. 6.	Sept. 6
Sept. 20.	Retaining Wall — Dayton, O.	Sept. 6
Sept. 25.	Harbor Improvements — Mobile, Ala.	Sept. 6

Where name of official is not given, communications should be addressed to City Clerk, County Clerk or corresponding official.

WATER-WORKS

Proposed Work

N. Y., Hempstead—Town sold $ bonds to build waterworks system in North Hempstead. C. E. Remsen, supervy.

N. J., Little Falls—(Official)—City rejected bids building pumping station. B. A. Stanley, supt. Noted Aug. 23.

O., Hubbard—Village sold $12,000 bonds to build waterworks system. W. H. Willard, supt.

Kan., Junction City—City Comrs. plan to extend water main on West 10th and East Chestnut Sts., also 6-in. line on Calhoun St. to connect dead ends.

Kan., Towanda—City having plans prepared by F. E. Devlin, engr., Eldorado, for building waterworks system.

S. D., Centerville—(Official)—City defeated $20,000 bond issue to install waterworks system. Noted Aug. 16.

Okla., Coyle—(Official)—City sold $13,000 bonds to improve waterworks system. W. Erkman, clk. Noted Aug. 23.

Okla., Dewar—(Official)—City sold $20,000 bonds to extend water-works. Noted Aug. 23.

Okla., Oklahoma — (Official) — City will not spend $10,000 to build waterworks and connecting wells. J. W. Bennett, supt. Noted Aug. 23.

Colo., Greeley—(Official)—City sold $150,000 bonds to build water-works system. W. A. Hotchkiss, clk.

Idaho, Sandpoint—City plans to build water-works system. M. Henderson, supt.

Wash., Waitsburg—City voted $50,000 bonds to build waterworks system. Noted Aug. 2.

B. C., Vancouver—City having plans prepared extending water mains 20,000-ft. to Roche Point to serve Robert Dollar plant. About $26,000. J. L. Breckon, supt.

BIDS DESIRED

N. Y., Tonawanda—(Official)—Until Sept. 26, by M. W. Simson, city clk., furnishing and laying intake pipe in Niagara River, advertised in this issue. Noted Apr. 19.

N. J., East Orange—Until Sept. 10, by Bd. Water Comrs., for laying water mains. R. M. Roper, 436 Main St., act. secy.

PRICES AND CONTRACTS AWARDED—

(★Indicates award of contract)

★**Pa., Loretto**—Bethlehem Steel Co., South Bethlehem, let contract building reservoir and observation tower to Richardson Constr. Co., Connell Bldg., Scranton, $100,000.

★**Md., Cumberland**—(Official)—City let contract 7,000,000 gal. reservoir in Ridgedale Addition to Cumberland Contr. Co., Cumberland, $67,545. Noted Aug. 2.

★**Va., Leshall**—Newport News Light & Water Co., Newport News, let contract filter plant to Roberts Filter Mfg. Co., 6th St. and Columbia Ave., Darby, $500,000.

★**O., Akron**—(Official)—City let contract laying 7200-ft. of 30-in. c.i. pipe with connections and lines, constructing manholes, replacing paving and appurtenant work to Gessner Co., Toledo, $32,608.

★**Ill., Chicago**—City let contract building deep well to B. Geiger, 37 West Van Buren St., $23,737. Noted Aug. 9.

★**Wis., Clintonville**—(Official)—City let contract laying 4000-ft. water mains to Meirswa Constr. Co., Oshkosh, $2.40 for 6-in. main and $2.08 for 4-in.

★**Minn., Lake Crystal**—Village let contract, water mains to A. Larson, Lake Crystal, $30,000.

★**Mont., Glasgow**—(Official)—City let contract improving water and sewerage systems to Empire Constr. Co., Minot, as follows: 6-in. c. i. pipe, $2.85 per ft., specials, 10c. per lb. hydrants, $85 each gate valves, $50 each, 10-in. vitr. pipe, $1.65 per ft., manholes, $70 each, catchbasins, $75 each, flush tanks, $210.

Water Works (Continued)

★**Monett**—(Official)—City let contract building 1,000,000-gal. rein.-con reservoir to M. E. Gillioz, Monett, without roof, $14,598; with roof, $18,464. Noted Aug. 23.

Colo., Otis—(Official)—City received low bid building water-works system, including deep well, wrought-iron water pipe, castings, tees, elevated tank and tower, from Gordon & Sinclok Constr. Co., Century Bldg., Denver, $20,000. Noted Aug. 23.

SEWERS

Proposed Work

Mass., East Boston—(Boston P. O.)—Dept. Pub. Wks., Boston, soon lets contract sewer in Faywood Ave. E. F. Murphy, comr.

O., Dayton—City plans to improve Sanitary Sewer Dist. No. 3, portions Alton and Baltimore Sts. and Notre Dame Ave. F. O. Eichelberger, city engr.

O., Mansfield—City plans improving Bartley Ave. by building 8-in. sanitary sewer, including flush tanks and manholes. W. J. Hazelton, city engr.

O., Toledo—City plans election in November to vote on $3,000,000 bond issue to build sewage plant. H. McKechnie, city engr.

Ia., Des Moines—City Council plans to build sewerage system to connect Des Moines with Valley Junction. About $300,000. Karl Kastberg, city engr.

Kan., Pittsburg—City having plans prepared by Black & Veatch, engrs., 507 Interstate Bldg., Kansas City, Mo., building sewage disposal plant. About $75,000. Noted May 17.

Neb., Omaha—(Official)—City to sell $20,000 bonds to build sewers. J. A. Bruce, city engr. Noted Aug. 23.

Okla., Boynton—Council passed ordinance authorizing $20,000 bond issue to build sewerage system. J. F. Wolfinger, chn.

Okla., Sentinel—(Official)—City defeated $15,000 bonds for improving sewerage system. Noted July 12.

Ore., Portland—City having plans prepared for building East 63rd and Halsey Sts. sewerage system to care for Rose City Park Dist. About $163,000. P. H. Dater, city engr.

Cal., Los Angeles—City having plans prepared installing sewers in East Hollywood Dist. A. C. Hansen, city engr.

Cal., San Diego—City plans sewerage system involving 18-mi. concrete pipe from 6- to 20-in. at Camp Kearny. G. Cromwell, city engr.

BIDS DESIRED

N. J., Montclair—(Official)—Until Sept. 11 by H. Trippett, town clk., storm sewer portion Church St.; advertised in this issue.

O., Springfield—Until Sept. 12, by City, installing sewers in Linwood, Columbus, Water and Mt. Vernon Sts. C. E. Ashburner, city mgr.

Ia., Clinton—(Official)—Until Sept. 11 by City Clk., building sanitary sewer in portions 11th Ave. J. G. Thorne, city engr.

Okla., Oklahoma—Until Sept. 11, by C. F. Semmelbeck, city clk., building lateral sewerage system. G. V. McClure, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., New Canaan** — (Official) — City let contract building filter beds, and sewage disposal plant to E. W. Schreve, Bridgeport, $14,960.

★**Conn., Orange**—Town let contract building sanitary sewers in Prospect Beach Sect. to Acme Eng. Co., Hartford. Noted May 31.

N. Y., Long Island City—(Official)—Bids were received by M. M. Connolly, boro. pres., Aug. 29, for sewers and appurtenances in (a) Junction Ave., (b) Sackett St., (c) Guion Ave., (d) North Villa St., (e) Fulton Pl. and North Morris Ave., (f) Myrtle Ave., as follows: Ajax Drainage Contg. Corp., 60 Herkimer St., Bklyn., (a) $37,933, (b) $30,880, (d) $29,952, (e) $15,603; Peace Bros., 20 Main St., Flushing, (a) $31,417, (b) $26,964, (e) $15,353; Murphy Bros., 262 Bay 43rd St., Bklyn., (c) $15,556, (f) $21,766; Green Contg. Co., 734 Verona Ave., (b) $21,605; J. L. Sigretto, 1459 Woodhaven Ave., Woodhaven, (e) $14,377. Noted Aug. 23.

★**N. J., Avalon**—Boro. let contract building lateral sewer to Seaman & Letsnus, Stone Harbor, $10,000.

★**Pa., Waynesboro**—City let contract storm sewers to H. K. Gerhart, Waynesboro, $10,000.

★**O., Ashland**—See "Streets and Roads."

★**Ind., Gary**—City let contract building sewer in Dist. No. 38 to J. Apostle, Gary, $11,822. Noted June 28.

★**Ia., Conrad**—City let contract building sewers to Cole Bros., Ames, $16,840.

★**Ia., Council Bluffs**—(Official)—City let contract installing sewers to E. A. Wickham & Co., 19 Scott St., $1.10 for 10-in. sewer, 98c. for 8-in., 67c. for 6-in. and 45c. for manholes.

★**Ia., Marshalltown**—(Official)—City let contract building sanitary sewer to Anderson & Empire, Marshalltown, $20,000. Noted Aug. 23.

★**Ia., Milford**—City let contract building 4½-mi. 8-15-in. sewers to R. N. Kruse, Spencer, $39,014. Noted Aug. 9.

★**S. D., Watertown**—City let contract sewers in 2nd, 3rd, 4th, 5th and 6th Sts. to W. M. Danforth, 707 Germania Life Bldg., St. Paul. About $16,900.

★**Mont., Glasgow**—See "Waterworks."

★**Tex., San Antonio**—(Official)—City let contract sewage pumping plant to McKenzie Constr. Co., 605 Bedell Bldg., $30,000. Noted July 19.

★**Okla., Commerce**—City let contract laying 6, 8, 10 and 12-in. pipe and building sewage disposal plant to Municipal Excavator Co., 200 East Main St., Oklahoma, $24,000 and $2500 respectively. Noted July 12.

★**Cal., Los Angeles** — See "Streets and Roads."

BRIDGES

Proposed Work

Me., Bath—State Highway Comn., Cumberland and Sagadahoc Cos., plan bridge over New Meadows River. About $13,000.

N. J., New Brunswick—A. Fox, Middlesex Co. engr. preparing plans for new draw bridge over Raritan River, Albany St.

Pa., Norristown—Montgomery and Chester Cos. plan to improve inter-county bridge over Schuylkill River, between iron borough and Mont Clare.

Ga., Savannah — Savannah - Altamaha Bridge Co., recently incorporated with $100,000 capital stock, plans to build bridge from Savannah across Altamaha River. Address M. B. Lane, 26 Gaston St. Noted July 19.

Fla., Bradentown—See "Streets and Roads."

Fla., Miami—See "Streets and Roads."

Fla., West Palm Beach—See "Streets and Roads."

Tenn., Knoxville — City sold $150,000 bonds to build viaduct and approaches. Southern Ry. will bear part of cost of work. J. B. McCalla, city engr. W. H. Wells, Wash., D. C., ch. engr. ry.

Tenn., Memphis—City sold $25,000 bonds to build wagonway and approaches to J. T. Harahan bridge. J. H. Weatherford, city engr.

O., Lorain—Council plans traffic bridge over Black River in southern part of city. C. M. Osborne, city engr.

Wis., Prairie du Chien—Prairie du Chien & Wyalusing Bridge Co. rejected bids building 700-ft. rein.-con. toll bridge over Wisconsin River. About $50,000. J. H. Brantz, St. Paul and Manakota, Minn., engr. Noted Aug. 23.

Minn., Walker—Cass Co. Comrs. authorized $11,000 bond issue to build bridges.

Mo., Liberty—See "Streets and Roads."

Tex., Beaumont—Chamber of Commerce and City Council plan to build new toll bridge over Neches River. About $200,000. C. L. Scherer, city engr.

Okla., Atoka—Atoka Co. voted $30,000 bonds to build bridges and roads. Noted Aug. 9.

BIDS DESIRED

Mass., Lynn—(Official)—Until Sept. 11 by R. J. Newsom, supt. water and water works, City Hall, rein.-con. bridge and approaches on Ipswich River Sta.; advertised in this issue.

R. I., Woonsocket—(Official)—Until Sept. 17, Bd. Aldermen, building rein.-con. bridges, Contr. Nos. 1, 2 and 3; advertised in this issue.

N. Y., Albany—(Official)—Until Oct. 2, by W. W. Wotherspoon, supt. pub. wks., Capitol, constructing bascule bridge below Lock No. 1, Culvert St., Phoenix, Oswego Canal, Sect. 1, Contract No. 167; advertised in this issue.

N. Y., Scarsdale—(Official)—Until Sept. 10, by Bronx Pkway Comn. J. Downer, engr. secy., 2 rein.-con. arch bridges, Contr. No. 24; advertised in this issue.

Pa., Butler—(Official)—Until Sept. 20 by Pennsylvania Pub. Ser. Comn., Harrisburg, steel bridge with concrete abutments on Main St.; advertisted in this issue.

Pa., Du Bois—(Official)—Until Sept. 20, by City, for bridge over Sandy Lick Creek on Brady St. About $15,000. G. A. Flink, 301-3 Commonwealth Trust Bldg., Harrisburg, engr.

W. Va., Martinsburg—(Official)—Until Sept. 8 by Berkely Co. building 80 ft. rein.-con. bridge over Opequon Creek.

Ala., Carrolton—See "Streets and Roads."

O., Youngstown—(Official)—Until Sept. 12, by Dir. of Pub. Ser., improving east approach to East Federal St. bridge, building temporary trestle and paving viaduct, wood block. F. M. Lillie, city engr.

Ore., Jacksonville—(Official)—Until Sept. 15, by Jackson Co. Court, 126-ft. wooden bridge over Big Applegate River. G. A. Gardner, clk. Noted Aug. 16.

Cal., Santa Ana—Until Sept. 18, by Bd. Superv. Orange Co., rein.-con. bridge on Hiatt St., ¼ mi. south La Habra.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—See "Streets and Roads."

★**N. Y., Albany** — (Official) — W. W. Wotherspoon, supt. pub. wks., let contract highway bridge over Lock 27, Clyde River, Barge Canal Contr. No. 148, Lyons, to Lathrop, Shea & Henwood, Ellicott Sq., Buffalo, $68,770. Noted July 26.

N. Y., Albany—(Official)—W. W. Wotherspoon, supt. pub. wks., received low bids substructure, superstructure and approaches of bascule bridge over Tonawanda Creek, Tonawanda and North Tonawanda, Barge Canal Contr. No. 147, from Scherzer Rolling Lift Bridge Co., Monadnock Blk., Chicago, $233,986; Lupfer & Remick, Ellicott Sq., $239,820; Lathrop, Shea & Henwood, Ellicott Sq., $257,046, both of Buffalo. Noted July 26.

★**N. Y., Utica**—Bd. of Contr. let contract rein.-con. bridge over Reals Creek on Trenton Ave. to Wm. F. Cogley, Utica, $11,436.

★**Va., Covington**—Alleghany Co. let contract concrete bridges to Carpenter & Major, Clifton Forge, $33,000.

★**S. C., Camden**—(Official)—Kershaw Co. let contract building bridge over Wateree River to Austin Bros., 156 Greenwood Ave., Atlanta, Ga., $93,000. Noted Aug. 23

★**Mich., Iron River**—City let contract concrete bridge over Iron River on Genesee St. to B. W. Hicks, Norway, and J. W. Hoose, Iron Mountain, about $25,000.

★**Kan., Kansas City**—City and Leeds Ry. let contract rein.-con. bridge over Blue River, 3 spans 320 ft. long and 80 ft. wide to Clinton Constr. Co., 310 Mass Bldg.

Mo., St. Louis—(Official)—City received low bids building rein.-con. bridge over Broadway at Bellerive Park from Herclotz & Herchert, $64,496; Hoffman Bros., Constr. Co., $68,936; Woerman Constr. Co., 5351 Delmar Blk., $75,739. Noted Aug. 23.

★**Ark., Arkansas City** — Desha Co. let contract new draw lift span in Missouri Pacific Ry. Bridge over Arkansas River to Missouri Valley Bridge Co., Central Ave. and Kaw River, Kansas City, Mo.

★**Ark., Augusta**—See "Streets and Roads."

★**Tex., Dallas**—See "Streets and Roads."

★**Wash., South Bend**—Comrs. Pacific Co. let contract 3 rein.-con. bridges, Luten design, to C. G. Huber, Central Bldg., Seattle, $22,553. Noted July 26.

★**Wash., Spokane**—(Official)—Spokane Co. Comrs. let contract steel bridge over Spokane River, Harvard Rd. to Illinois Steel Bridge Co., 208 South La Salle St., Chicago, $37,488. Noted Aug. 16.

★**Ore., Canyon City**—City let contract replanking 2 concrete bridges to Coast Bridge Co., Ry. Ex. Bldg., Portland, $12,800.

★**Ore., St. Helens**—Columbia Co. let contract 10 rein.-con. bridges over Beaver Creek to L. O. Herrold, Portland, $36,959.

★**Cal., Los Angeles**—Bd. Pub. Wks. let contract rein.-con. bridge over tracks of Pacific Electric Ry. at West Blvd. and Sherman Way to W. M. Ledbetter, 1533 Western Ave., $24,957.

★**Cal., Rio Vista**—Bd. Supervs. Sacramento Co., Sacramento, and Solano Co., Fairfield, let contract bascule bridge over Sacramento River to Tibbitts-Pacific Co., 16 California St., San Francisco, $104,563. Noted Aug. 30.

Bridges (Continued)

Cal., Sacramento — (Official) — State Highway Comn., 515 Forum Bldg., Sacramento, received bids, Aug. 20, Cottonwood Creek Bridge on State Highway in Shasta Co., Div. 2, Route 3, from Tieslau Bros., $28,850; Duncanson-Harrelson Co., Chronicle Bldg., $36,484; A. H. Vogt, Sharon Bldg., $37,930, all of San Francisco. Noted Apr. 19.

★**Cal., Stockton**—City Council let contract constructing 54-in. concrete culvert in bed of Miner Channel to Frank C. McIntyre, Stockton. About $28,480.

STRUCTURAL STEEL WORK

Proposed Work

Ga., Savannah—See "Bridges."
Tenn., Knoxville—See "Bridges.
Tenn., Memphis—See "Bridges."
O., Lorain—See "Bridges."
Minn., Walker—See "Bridges."
Tex., Beaumont—See "Bridges."
Okla., Atoka—See "Bridges."

BIDS DESIRED

Pa., Butler—See "Bridges."
Pa., Du Bois—See "Bridges."
O., Youngstown—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Albany—See "Bridges."
★**Ark., Arkansas City**—See "Bridges."
★**Wash., Spokane**—See "Bridges."

REINFORCED CONCRETE

Proposed Work

Tenn., Jackson—See "Industrial Works."
Wis., Prairie Du Chien—See "Bridges."
Ore., Baker—See "Miscellaneous."
Cal., Los Angeles—See "Industrial Works."
Cal., San Diego—See "Sewers."

BIDS DESIRED

R. I., Woonsocket—See "Bridges."
Mass., Lynn—See "Bridges."
N. Y., Scarsdale—See "Bridges."
N. J., Newton—See "Miscellaneous."
W. Va., Martinsburg—See "Bridges."
O., Dayton—See "Miscellaneous."
Cal., Santa Ana—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Utica**—See "Bridges."
★**Va., Covington**—See "Bridges."
★**Ill., Galesburg**—See "Industrial Works."
★**Mich., Iron River**—See "Bridges."
★**Kan., Kansas City**—See "Bridges."
★**Mo., Kansas City**—See "Bridges."
★**Mo., Monett**—See "Water-Works."
Mo., St. Louis—See "Bridges."
★**Ark., Augusta**—See "Streets and Roads."
★**Wash., South Bend**—See "Bridges."
★**Ore., St. Helens**—See "Bridges."
★**Cal., Los Angeles**—See "Bridges."
★**Cal., Los Angeles**—See "Streets and Roads."
Cal., Sacramento—See "Bridges."
★**Cal., Stockton**—See "Bridges."

STREETS AND ROADS

Proposed Work

Massachusetts—State Highway Comn., 212 State House, Boston, rejected bids paving Littleton highway. New bids. Noted Aug. 30.

Massachusetts — (Official) — State Highway Comn., Boston, received no bids building 4400-ft. state highway in Kingston. Noted Aug. 23.

N. J., Camden—City Council plans widening State St. and paving alleys in rear of Belleview and Kaighn Aves., concrete. L. E. Farnham, city engr.

N. J., Garwood—City Council plans macadamizing, curbing and guttering Centre St. and Hemlock, Hazel, Pine, Beach, Locust and Myrtle Aves. Address A. Conklin, mayor.

N. J., Jersey City—City Council plans paving West Side St., granite block pavement. C. Van Kuren, city engr.

N. J., Morristown—Oak Ridge Co. & Mountain Lakes Assn., Morris Co., plans to improve several streets and roads, including drainage. About $25,000.

N. J., Newark—Bd. Pub. Wks. plans to improve Paterson-Hamburg Turnpike. About $186,500. M. R. Sherrard, city engr.

N. J., Paterson—Bd. Pub. Wks. plans to pave East Main St., concrete, Grand St., bituminous concrete. A. V. Livingston, clk. H. J. Hardjes, city engr.

N. J., Union—Town plans to pave 18th and 19th Sts., and Lincoln Pl. T. F. Bowe, city engr.

Va., Front Royal—Bd. Supervs. of Warren Co. sold $10,000 bonds to build public road from Browntown to Bentonville, South River Dist.

W. Va., Stealey Heights—(Clarksburg, P. O.)—Town election Sept. 11, to vote on $20,500 bond issue to improve and pave Davis St. and Duncan Ave. L. D. Mitchell, mayor.

N. C., Bridgetown—Council passed ordinance to issue $12,000 bonds to pave portions Bridge St., brick. I. Lewis, clk.

N. C., Clinton—Sampson Co. Comrs. plan $75,000 bond issue to improve roads.

N. C., Yanceyville—Caswell Co. Comrs. plan to issue $85,000 bonds to build roads; one to connect Yanceyville and Danville, Va.

Fla., Bradentown—Manattee Co. plans to vote on $115,000 bond issue for road and bridge work.

Fla., Miami—Dade Co. voted $140,000 bond issue for roads and bridges. Hobart Crabtree, engr. Noted Aug. 16.

Fla., West Palm Beach—Palm Beach Co. Comrs. soon lets contract following improvements in Lake Worth: Paving 2 mi. road, $75,000; building 2100-ft. seawall, $25,000; building bridges, $25,000. Address H. C. Fugate and Z. F. Potter.

Miss., Tunica—Tunica Co. Comrs. rejected bids building 41-mi. gravel road. New bids. Noted July 26.

Tenn., Memphis—City Comn. voted to recurb and repave portion Union Ave., asphalt, opening 3rd St., building new street between Union and Beale Aves.; also to recurb and repave portion Front St., $15,189. J. H. Weatherford, city engr.

Ky., Henderson—City soon receives bids paving, curbing and guttering Adams and Alvasia Sts. W. Hopkins, city engr.

O., Batavia—Clermont Co. sold $21,350 bonds to improve roads. C. S. Earles, aud. Noted Aug. 16.

O., Bryan—Williams Co. to sell $117,500 bonds, Sept. 8, to improve roads. G. C. Beucler, co. aud.

O., Cleveland—Cuyahoga Co. plans widening portion Harvard Rd. W. A. Stinchcomb, co. engr.

O., Cleveland—City plans paving and improving portions West 32nd, Altoona, Ashland, Peach, West 44th, West 68th, Hodgson, Dover, Almira, Cobb, West 95th, East 100th Sargent, Atticue, Pennant and Maxim Sts. E. Hoffman, city engr.

O., Columbus—(Official)—Citizens voted $5,000,000 bonds to improve streets. H. Maetzel, city engr. Noted Aug. 9.

O., Tiffin—Seneca Co. will sell $23,000 bonds to improve roads. J. E. Hershberger, co. aud.

Ind., Crown Point—Lake Co. to sell $48,000 bonds Sept. 10 to improve roads. M. J. Brown, co. treas.

Ill., Lockport—Citizens voted to macadamize, curb and gutter portion 9th St.; also macadamize State St. About $14,000.

Ill., Springfield—Sangmon Co. plans to hard surface 41-mi. roads. About $1,000,000. E. H. White, co. highway supt.

Wis., Janesville—Janesville Co. plans to build road from here to Beloit, 1½-mi. with state aid. C. Moore, co. highway comr.

Wis., Park Falls—City voted $30,000 bond issue to pave streets.

Wis., Stevens Point—City plans $17,000 bond issue to improve streets.

Wis., West Allis—Bd. Pub. Wks. soon receives bids grading 50th, 52nd, 53rd and 54th Aves. E. G. Orbert, city engr.

Ia., Davenport—City Council plans $25,000, bond issue for paving and grading streets. A. R. Boudinot, city engr.

Ia., Iowa City—Johnson Co. plans paving roads between Iowa City and Coralville, brick, with Federal aid.

Kan., Great Bend—City plans to pave Williams Ave., asphalt concrete. S. A. Newcombe, city engr.

Kan., Wichita—City plans to pave portions 12th, 10th and Green Sts., also Bort, Woodrow Central and Chautauqua Aves. H. D. Lester, clk.

Neb., Columbus—City sold $30,000 bonds to pave streets.

Neb., Lincoln—Lancaster Co. Comrs. plan paving Lincoln-Omaha Rd. from Lincoln to Waverly.

N. D., Hillsboro—Traill Co. soon receives bids building 7-mi. roads with state aid. G. D. Olson, co. aud.

Mont., Butte—City Council plans repaving portion Main and Wyoming Sts. and several streets in down-town districts. J. J. Armstrong, city engr.

Mont., Great Falls—City plans to pave and build sidewalks and curbs on 1st Ave. 6th and 7th Sts. L. B. Evenson, city engr.

Mo., Liberty—Clay Co. voted $12,500 bond issue to complete driveway on Siloam Springs Pagoda and construct bridge. Address Co. Comrs.

Mo., Springfield — Greene Co. election Sept. 12 to vote on $10,000 bond issue to improve roads in Galloway Special Rd. Dist. L. Luster, atty. Noted Aug. 30.

Ark., Ashdown—Little River Co. plans 11-mi. sand-clay road in to Walnut Bayou. About $26,000.

Ark., Ft. Smith—City soon lets contract repaving portions North 2nd St. M. H. Reed, city engr.

Ark., Little Rock—Prairie Co. Comrs. rejected bids to construct 8-mi. concrete and 14-mi. gravel road. New bids. About $235,000. Noted July 19.

Tex., Boston—Bowle Co. Comrs. appropriated $15,000 to build 10-mi. highway from Texarkana to Red River.

Tex., Corsicana—Comrs. Court of Navarro Co. plans election, Sept. 20, to vote on $80,000 bond issue for good roads in Rice Precinct.

Tex., Wolfe City—Hunt Co., Rd. Dist. No. 2, voted $100,000 bonds to build roads. Noted July 26.

Okla., Atoka—See "Bridges."

Okla., Tulsa—Tulsa Co. plans $100,000 bond issue to build and improve roads. L. Cline, co. clk.

Colo., Denver—Boulder and Adams Co. Comrs. plan paving 5-mi. of Federal Blvd. north of city limits. About $40,000.

Colo., Sterling—Comrs. Logan Co. plan to build 25 mi. road extending from Peetz to state line on north. Address W. E. Henning, Peetz.

New Mexico—State Highway Comn., Santa Fe, soon receives bids to build Gallup-Farmington, Alamogordo-Newman, Hondo-Meseafero and Amarillo-Roswell Rds.

N. M., Albuquerque—Bernalillo Co. plans to build La Tijera Rd. with Federal and State aid. About $24,000.

N. M., Las Vegas—City plans paving portion 6th St., and installing storm sewerage system. T. H. Benjamin, city clk.

Idaho, Lewiston—City Council rejected bids grading, curbing and sidewalks in Dist. No. 11. New bids. Noted Aug. 30.

Idaho, Nez Perce—City Council created Improv. Dists. Nos. 4, 5 and 6 and plans to build concrete sidewalks within city limits. About $15,000.

Idaho, Twin Falls—Twin Falls Co. plans election in Buhl Highway Dist. soon to vote on $250,000 bond issue to build roads.

Utah—State Highway Dept., Ogden, soon lets contract building 45-mi. highway from Castlegate to Duchesne and 9.6-mi. from Ogden to Hooper, with State and Federal aid. About $77,400 and $31,300 respectively.

Utah, Salt Lake City—City Council plans paving and improving portions Plum St. S. Q. Cannon, city engr.

Washington — State Highway Comn., Olympia rejected bids clearing, grading, draining and surfacing section No. 21 State Rd. New bids. Noted Aug. 2.

Wash., Seattle—Bd. Pub. Wks. had plans prepared grading 13th Ave. About $17,784. A. H. Dimock, city engr.

Oregon—State Bd. Control, Salem, sold $400,000 bonds for highway work. Noted July 26.

Ore., Astoria—Council passed ordinance paving and redecking portions Franklin, 26th, 32nd and 23rd Sts. J. McLear, city engr.

Ore., Coquille—(Official)—Coos Co. Court rejected only bid for macadamizing road between Empire and South Inlet bridge. New bids. L. W. Oddy, co. clk. Noted Aug. 16.

Ore., Enterprise—City Council plans paving streets in business district. About $15,000.

Ore., Eugene—Lane Co. will build North Fork Highway between here and Florence. H. W. Libby, co. engr.

Cal., Fresno—City to sell $10,000 bonds Sept. 17 to improve Inyo St. B. E. Kronkite, city engr.

Cal., Glendale—City plans to improve portions Bway., macadam and asphalt. About $80,000.

Streets and Roads (Continued)

BIDS DESIRED

Mass., Quincy—Until Sept. 10, by Bd. Pub. Wks., paving Smith St., granite block on concrete base. P. F. O'Brien, city engr.

Rhode Island—(Official)—Until Sept. 12, by State Bd. Pub. Rds., Providence, rebuilding section East Main Rd., Portsmouth Twp.; advertised in this issue.

N. Y., Albany—(Official)—Until Sept. 20, by E. Duffey, state highway comr., 55 Lancaster St., building and improving highways in various counties; advertised in this issue.

N. J., Cape May Court House—Until Oct. 16, by Cape May Co. Bd. Freeholders, for building gravel road in Lower Twp., involving 59,000 sq.yd. surfacing and 180,000 cu. yd. embankment. F. W. Fowkes, Sea Isle City, clk. L. M. Rice, Wildwood, co. engr.

N. J., Trenton—Until Sept. 10, by Mercer Co. Twp. Comn., improving Hopewell-Woodsville Rd. D. M. Voorhee, clk.

Pa., Pittsburgh—(Official)—Until Sept. 14, by Allegheny Co. Comrs. grading and paving Round Hill Rd., Forward Twp., 12,500 ft. and Scotia Howard Rd., Jefferson Twp., 9250 ft. J. P. Moore, controller.

W. Va., Charleston — (Official) — Until Sept. 21, by P. T. Board, city mgr., paving and curbing streets and alleys involving 17,000 ft. curb and gutter, and 27,000 sq.yd. paving. M. J. McChesney, city engr. Noted Aug. 16.

W. Va., Parkersburg — (Official) — Until Sept. 14, by City, paving, steel grading and curbing portions Ann, Charles, George, Spring 29th and 22nd Sts., sand gravel, 3-in. concrete base. Depot St., concrete. About $46,000. W. M. Hall, city engr. Noted Aug. 30.

Ala., Carrolton—Until Sept. 25, by Pickens Co., grading and paving 50 mi. road, sand, clay, gravel, pipe and bridges. G. E. Hauser, 1st Natl. Bank Bldg., Columbus, Miss., engr.

Ala., Eutaw—Until Sept. 24, by Greene Co. Comrs., grading and building road from here to Five Points. About $25,000.

Ala., Livingston—Until Sept. 24, by Sumter Co. Comrs., grading and draining 4.7-mi. state trunk road No. 7 between Livingston and Gainesville.

Ky., Louisa—Until Sept. 10, by M. A. Hay, clk. Lawrence Co., improving inter-county road from here to Sandy Hook, including 13,122-cu.yd. excava., 264-ft. 12-24-in. pipe, 4324-lb. reinforcing steel.

O., Springfield—Until Sept. 12, by City improving and paving portions Mulberry, Western Grand, Kenton, Mountain, Stanton and Southern Sts. M. J. Bahin, city engr.

Ind., Indianapolis—Until Sept. 12, by Bd. Pub. Wks., paving and grading Julian Ave., wooden blocks, asphalt, bituminous concrete or brick on 6-in. gravel concrete base. B. J. T. Jeup, city engr.

Ind., Indianapolis—(Official)—Until Sept. 17, by Bd. Pub. Wks., grading and paving portions California, Washington and Court Sts., wood block, asphalt, bituminous concrete or brick laid on 6-in. foundation, 24 ft. wide. J. A. Rink, pres.

Ill., Morrison—(Official)—Until Sept. 18, by V. N. Taggett, supt. highways, Whiteside Co., 16,046 sq.yd. gravel or gravel and macadam roadway in Albany. Noted Aug. 23.

Ia., Cherokee—Until Sept. 10, by Cherokee Co. surfacing and graveling 5½-mi. Marcus-Southern Rd. W. O. Dailey, co. aud.

Minn., Mankato — (Official) — Until Sept. 10, by N. Moe, engr., Blue Earth Co., graveling Mapleton Rd., 4½ mi.

Neb., Lincoln—Until Oct. 1, by Lancaster Co., paving 5.6-mi. concrete, brick or asphalt road in Dist. No. 19. About $150,000. A. E. Sutherland, clk.

Mo., Kansas City—(Official)—Until Sept. 12, by Bd. Park Comrs. paving portions Paseo Rd. T. C. Harrington, secy.

Idaho, Pocatello—Until Sept. 16, by A. R. Dawson, city clk., resurfacing pavements, L.I.D. No. 22, 5400 yd. J. H. Giles, city engr.

Cal., Santa Ana—Until Sept. 18, by Orange Co. Bd. Supervs., grading 1900 lin.ft. and excavating 4600 cu.yd. on Brea-Olinda Rd. Noted July 19.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Massachusetts**—(Official)—State Highway Comn., Boston, let contract building Egremont West Boylston Rd. to R. H. Newell Co., Uxbridge, $44,817. Noted Aug. 2.

★**Mass., Boston**—City let contract paving Dorchester Ave., granite block, to B. E. Grant, 27 School St., $27,835. Noted Aug. 30.

★**Mass., Boston**—City let contract paving portion Commonwealth Ave., 3-in. sheet asphalt, including building bridge, to M. A. Sullivan, 35 Melville Ave., Dorchester, $119,975. Noted Aug. 2.

Connecticut—C. J. Bennett, state highway comr., Hartford, received low bids following road improvements: Hamden and Cheshire Twps., Hamden-Cheshire Rd., 28,906 ft. concrete, Sperry Eng. Co., 82 Church St., New Haven, $127,529; L. Suzio Constr. Co., State and Brooke Sts., Meriden, $130,168; L. C. Fay Constr. Co., 281 Main St., Springfield, Mass., $151,277; Stratford Twp., 7300 lin.ft. Hassam or rein.-conc., Barnum Ave., Connecticut Hassam Paving Co., 902 Chapel St., New Haven, $40,602; Waterford Twp., 3500 lin.ft. grading, Niantic Rd., F. Arrigoni & Bro., 605 Main St., Middletown, $9383, L. C. Fay Constr. Co., 281 Main St., Springfield, Mass., $10,732. Noted Aug. 16.

★**Conn., New Haven**—City let contract paving Wallace St. to Franklin Constr. Co., 52 Vanderbilt Ave., New York City, $17,000; Crown, Gearge and Oak Sts., to Union Paving Co., Schenectady, N. Y., $20,734.

N. Y., New York—M. M. Marks, boro. pres., received low bids, (a) regulating and repaving portions 31st St., (b) portions East 79th St., sheet asphalt on concrete foundation, from Cleveland Trinidad Paving Co., Flushing, L. I., (a) $20,255, (b) $11,582, Sicilian Asphalt Paving Co., 41 Park Row, (a) $20,336, (b) $11,725, Asphalt Constr. Co., 2197 Madison Ave., (a) $20,342, (b) $11,051.

★**N. Y., Niagara Falls**—City let contract repaving Chilton Ave., aspbaltic concrete, to McKinney-McGuire Constr. Co., Gluck Bldg., $11,615.

★**N. Y., Syracuse**—City let contract surfacing portions West Gennessee St., to Warner-Quinlan Co., 224 Union Bldg., $14,752, portions South West St., vitr. block, to F. J. Baker, 319 University Blk., $28,169.

★**N. Y., Yonkers**—City let contract grading and regulating portion Hart Ave. to J. J. Cotalis, 811 Clover St., $19,500.

★**N. J., Elizabeth**—(Official)—Bd. Freeholders, Union Co., let contract paving various streets and avenues to Wolden Contr. Co., Keeling, $28,191. Noted Aug. 16.

★**N. J., Newark**—(Official)—Bd. Freeholders Essex Co. let contract improving Little Falls Rd. to Francisco Bros, Ridge Rd., Little Falls, $38,614. Noted Aug. 2.

N. J., New Brunswick—Middlesex Co. Bd. Freeholders received low bids reconstructing Rahway Ave. Roosevelt, from Meagher & Smith, 102 Church St., $74,964, Utility Constr. Co., 46 Paterson St., $80,080; T. H. Riddle, $76,855. Noted Aug. 16.

★**Pennsylvania** — State Highway Dept., Harrisburg, let contract paving State Rd. No. 583, Shickshinny, to O'Brien Bros., Avoca, $51,179.

★**Pa., Chester**—City let contract paving 12,620 sq.yd. to Union Paving Co., 30th and Locust Sts., Phila., and 3420 sq.yd. Belgian block alley paving to E. H. Oliver, 603 East 9th St.

★**Pa., Erie**—City let contract paving Hess Ave., asphalt, to J. J. Doyle, 457 West 3rd St., $11,858.

★**Del., Wilmington**—New Castle Co. Levy Court let contract Sect. 6 of Lincoln Highway from Newark to Maryland state line and section from Wilmington to Marshallton to Standard Bitulithic Co., 50 Church St., New York City, $91,000 and $137,000 respectively. Noted Aug. 2.

★**Md., Baltimore**—State Highway Dept. let contract building Telegraph Rd., Elkton, to F. C. Gorss, Equitable Bldg. Noted July 12.

★**Va., Chatham**—Pittsylvania Co. Supervs. let contract building 1.8-mi. highway from Danville to Henry Co. line to J. J. Bottershill, Virginia. About $14,370.

★**Va., Newport News**—City let contract paving 3-mi. streets to Atlantic Bithulithic Co., Virginia Ry. & Power Bldg., Richmond. About $85,000.

★**W. Va., Ceredo**—City let contract street paving to Hunt & Forbes, Ashland, about $33,000.

★**Ga., Montezuma**—City let contract paving 12,000 sq.yd. streets, vitr. brick, to Alabama Paving Co., Amer. Trust Bldg. About $25,000. Noted Aug. 9.

★**Fla., West Palm Beach**—Palm Beach Co. Comrs. let contract building 1-section Okeechobee River Rd. to F. A. McKenzie; 2-section to B. Johnson.

★**Ala., Anniston**—Calhoun Co. Comrs. let contract widening highway from Anniston to Camp McClellan, 6-mi., to Gilbert Bros., Gadsden

★**Ala., Headland**—Comrs. Henry Co., Abbeville, let contract 6 mi. road between here and Browns Cross Rds. to Crawley Bros., Headland.

★**Ky., Cadiz**—Trigg Co. let contract 5.3 mi. macadam road to C. McQuary, Hopkinsville, $20,000. Noted Aug. 9.

★**O., Ashland**—City let contract paving, grading, curbing and building sewers Virginia Ave. to D. Phillips, Ashland, $18,946. Noted Aug. 23.

★**O., Cincinnati**—(Official)—Hamilton Co. Comrs let contract improving Plainsville Rd. to R. E. Cash, 4234 Greenlee Ave., St. Bernard, $13,429; portion Livingston Rd. to O E. Robinson, 4649 Hamilton Ave., $2012. Noted Aug. 2.

★**O., Cleveland**—City let contract resurfacing and improving 2 sections Clifton Rd. to Cleveland Trinidad Paving Co., 3409 Trumball St. About $55,325.

★**O., Columbus**—City let contract paving portions Orchard Lane to E. D. Sullivan & Son, Interurban Terminal Bldg. About $27,419.

★**O., Dayton**—City let contract paving Leo St. to Finke Engr. Co., Dayton, $2.70 per sq.yd. Noted Aug. 2.

★**Ind., Indianapolis**—Pub. Wks. Dept. let contract building and paving, asphalt, 4 units of highway to Ft. Benjamin Harrison to Union Asphalt Constr. Co., 308 Amer. Central Life Bldg.; Indiana Asphalt Paving Co., 25th St. and Lake Erie & Western Ry. tracks; Amer. Constr. Co., 108 North Delaware St; Columbia Constr. Co., Indianapolis. Noted July 5.

★**Mich., Escanaba**—Town let contract paving portions Stephenson Ave., $15,970 sq.yd. bitulithic, to General Contr. Co., 1254 Plymouth Bldg., Minneapolis, $1.69 per sq.yd. Noted Aug. 30.

★**Ill., Danville**—Highway Comn. Carroll Twp. let contract paving road in Indianola, concrete and gravel, to C. E. Taggert, Martinsville. About $26,044. Noted Aug. 16.

★**Ill., Joliet**—Will Co. Comrs. let contract building hard surface road in Peotone Twp. to J. C. Poll Constr. Co., Danville, $18,000.

★**Ill., Rock Island**—City let contract paving 6th Ave. to McCarthy Improv. Co., 2nd and Percy St., $21,623. Noted Aug. 23.

Wis., Beloit—City received low bids paving White and Henry Aves. from Geo. Welch, Beloit; White Constr. Co., 1600 Ry. Ex. Bldg., Milwaukee; Williston Constr. Co., 343 South Dearborn St., Chicago. Noted July 5.

Wis., Sheboygan—City received low bid paving streets as follows: No. 289, J. Braun Constr. Co., Sheboygan, $21,084; No. 290, Pestien & Naumann, 821 Penn Ave., $23,922.

★**Wis., Washburn**—City let contract paving West Bayfield St., asphaltic concrete, to C. T. Welsh Co., 2628 Hamboldt Ave., South Minneapolis, $2.15 per sq.yd.

★**Ia., Des Moines**—Des Moines Co. Comrs. let contract 16-mi. roads, gravel surface, 10-ft. wide, 4-in. thick, to C. Maddy, Des Moines, $20,000.

★**Ia., Des Moines**—City let contract paving Beaver Ave. to J. Horrabin Co., 2nd and New York Aves., $180,000. Noted Aug. 30.

★**Minn., Bemidji**—Beltrami Co. Comrs. let contract grading and paving Jefferson Highway, to Leet Bros. About $11,232.

★**Kan., Hoisinton**—City let contract paving streets to Stamey-Mackey Constr. Co., Hutchinson, $50,000.

★**Kan., Wichita**—City let contract paving portions Fairmont Rd., involving 4740 cu.yd. grading, 7910 sq.yd. 2½-in. vertical fibre brick laid monolithic on 4½-in. concrete base to Globe Constr. Co., 401 Winne Bldg., $1.94 per sq.yd. Noted Aug. 9.

★**Wyo., Sheridan**—(Official)—City let contract paving in Dist No. 7, to Warren Constr. Co., Journal Bldg., Portland, $32,598. Noted Aug. 16.

★**Mo., Saxon**—City let contract paving streets to R. E. Williams Co., Gibson City, Ill., $300,000.

★**Ark., Augusta**—Woodruff Co. Cotton Plant Road Improv. Dist. No. 1, let contract building 9-mi. asphaltic macadam highway from Cotton Plant to Prairie Co. line, involving 50,000 cu.yd. grading, 110 ft. 18-in. and 72 ft. 24-in. pipe culvert and, 334 cu.yd. concrete bridges, culverts and head walls, to R. Mobley, Argenta. About $79,250.

Streets and Roads (Continued)

★**Tex., Dallas**—Comrs. Court Dallas Co. let contract grading Coppel Rd. to Cullom, to Bavousett & Griffin 308 Federal Bldg., bridging road to U. S. Eng. & Constr. Co., Dallas; graveling Segeville Rd. to S. A. and A. B. Murdock, Dallas; paving Miller's Ferry Rd., concrete, to Vibrolithic Constr. Co., Terminal Bldg. Total cost, $150,000.

★**Okla., Clinton**—City let contract paving to Western Paving Co., 578-579 Terminal Bldg., Oklahoma. About $11,388.

★**Okla., Oklahoma** — South Oklahoma Townsite Co. let contract paving and curbing to Western Paving Co., 519 Terminal Bldg. About $18,000.

★**Utah, Logan**—City let contract paving Main St. to Olaf Nelson. About $53,000. Noted July 12.

★**Utah, Salt Lake City**—(Official)—City let contract paving and grading several streets to Strange-Maguire Paving Co., Utah Savings & Trust Bldg., $22,632. Noted Aug. 16.

★**Wash., Seattle**—Bd. Pub. Wks. let contract grading Eddy St. to Sloane Bros., Seattle, $16,707. Noted Aug. 23.

Wash., Seattle—Bd. Pub. Wks. received low bid paving Elliot Ave. from Superior Constr. Co., 1642 Lane St., $11,057.

California—State Highway Comn., Sacramento, received low bids grading and paving roads between Sacramento River and Lamoine, Shasto Co., 13.3-mi. concrete, from J. F. Fitzpatrick, Ochsner Bldg., Sacramento, $153,075, F. Roland, San Francisco, $160,145; R. Rothwell, Los Angeles, $139,695. Noted Aug. 9.

★**Cal., Calistoga**—City let contact paving several streets, concrete, to Cushing Constr. Co., 420 Macdonald Ave., Richmond. About $17,580.

Cal., Long Beach—Bd. Pub. Wks. received low bids 135,000 sq.ft. 4-in. concrete base and warrenite pavement in 5th St. from Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $18,465.

Cal., Los Angeles—Bd. Pub. Wks. received low bid improving Franklin Ave., involving 111,862 sq.ft. bitulithic paving, 4 storm drains, 9 rein.-con. culverts and cement curbs, from Bryant & Austin, 1656 Compton Ave. About $32,700.

★**Cal., Los Angeles**—City let contract improvements in Rd. Dist. No. 103, involving 6595 cu.yd. excava., 14,241 lin.ft. shaping roadbed, 3200 cu.yd. concrete pavement, 64 cu.yd. concrete culverts, and 11,420 ft. expansion joints to J. S. Miller, 1249 9th St., Santa Monica. About $16,350. Noted Aug. 30.

★**Cal., Los Angeles**—City let contract paving portion Sherman Dr., involving 12,041 ft. regrading, 12,041 ft. recultivating, tamping and oiling, 975 ft. cement curb, 2568 sq. ft. concrete gutter and storm drain and for rein.-conc. bridge to W. M. Ledbetter, Pacific Electric Bldg., $24,957.

★**Cal., San Francisco**—(Official)—City let contract paving portion Silver Ave., asphalt, 6-in. concrete foundation, 2-in. asphalt surface; also Caselli and Falcon Aves., to T. H. Hutton, Call Bldg., $10,217.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

New York—Nickel Plate Connecting R.R. Corp., recently incorporated with $50,000 capital stock, plans to build line from point near Hamburg St. to connection with South Buffalo R.R., Buffalo, about 4 mi. Address Daniel J. Kenefick, Marine Bank Bldg., Buffalo.

Florida—Tatum Bros., Miami, plan railway from Miami along Miami Canal to Lake Okeechobee to connect with either Atlantic Coast Line or Seaboard Air Line, about 80 mi.

Alabama — Birmingham Civic Assn., Birmingham, plans 20 mi. railway from Birmingham to Warrior River. T. L. Cannon, 1612 Ave. I, chn.

Kentucky—Black Mt. R.R. Co., recently incorporated with $200,000 capital stock, plans railway from Pineville to Pucketts Creek and Chunk Lick Branch, Harlan Co., 10 mi. Address M. C. Spratt, Fidelity Bldg., Buffalo.

Ohio—Canton & Ohio River Ry. of Pittsburgh recently incorporated with $10,000,000 capital stock, plans 105-mi. line from Canton, O., to Wheeling, W. Va., via Toronto, O.

Texas—Southern Pacific Ry. plans line from Beasley to Needville, via Damon, Mound, Columbia, Brazoria and Freeport, about 50 mi. W. Hood, Flood Bldg., San Francisco, ch. engr.

Oklahoma—Oklahoma, New Mexico & Pacific Ry. plans line from Ringling to Waurika, about 37 mi. J. Ringling, 221 Institute Pl., Chicago, pres.

California—Bd. Works, San Francisco, authorized laying of tracks for Municipal Ry. from Van Ness and Market Sts. to Kearny St. About $300,000. T. A. Cashin, San Francisco, supt. ry.

California—City Comn., Pasadena, created board to appraise and secure options for right-of-way for proposed municipal interurban railway from Pasadena to Los Angeles, about 12 mi. A. C. Hansen, city engr.

EXCAVATION AND DREDGING

Proposed Work

Tenn., Trenton — Drainage — Gibson and Weakley Cos. formed new district to drain land along south fork Obion River. Address Co. Clk., Trenton.

Ill., Quincy — Drainage — Fabius River D. D. had plans prepared by Perkins Eng. Co., 38 South Dearborn St., Chicago, for improving system, Adams Co. About $73,000.

Minn., Detroit—(Official)—Ditch—J. A. Narum, aud. Becker Co. received no bids building county Ditch No. 19, involving 65,138 cu.yd. excava. Noted Aug. 16.

Minn., Ivanhoe—Ditches—Lincoln Co. will sell, Sept. 10, $50,000 bonds to build Ditch No. 30 and $65,000 for Ditch No. 35. K. A. Hansen, co. aud.

Cal., Brawley—Imperial Laguna Water Co. retained C. G. Frisbie to survey route of Canal to bring water from Laguna dam, Colorado River into Imperial Valley, about 40 mi.

Cal., Newport Beach — Dredging — City plans election to vote on $50,000 bonds for dredging harbor.

Ont., Port Arthur—Dredging—Dominion Government appropriated $130,000 dredging at new Saskatchewan Co-operative and Richardson elevators.

BIDS DESIRED

N. Y., New York—Dredging—Until Sept. 12, by R. A. C. Smith, comr. piers, docks and ferries, dredging slips, foot 55th, 56th and 57th Sts.

Ind., Angola—Ditch—Until Sept. 15, by Steuben Co. Comrs. building Oliver Shaeffer et. al. ditch, Fremont and Jamestown Twps. L. E. Smith, supt.

Ill., Paxton—Ditch—Until Sept. 21, by Ford Co. to construct ditch of Sub Dist. No. 2, Union D.D. 13,625 ft. long, and 41,164 ft. wide.

Ill., Urbana—(Official)—Drainage—Until Oct. 2, by Champaign Co., dredging Spoon River D.D. R. F. Fisher, Champaign, engr.

Ia., Carrollton—Drainage—Until Sept. 10, by Greene Co. supervs., D.D. No. 121, involving 76,670 ft. tile, 240 ft. sewer pipe.

Minn., Moorhead—(Official)—Ditch—Until Sept. 18, by A. O. Houglum, aud. Clay Co., building Co. Ditch No. 41, main ditch involves 212,832 cu.yd. excava., depth 7.2 ft. Cost $49,924 with steel bridges, $41,774 with wooden bridges.

Minn., Walker—Ditch—Until Sept. 10, by Comrs. Cass Co., for Judicial Ditch No. 6 requiring 70,234 cu.yd. excava. on main ditch, 18,724 cu.yd. on laterals, culvert bridges, etc. C. D. Bacon, co. aud.

Cal., Modesto—Irrigation—Until Sept. 21, by Modesto Irrigation Dist., enlarging main canal between Indian Hill fill and flume E; also lining 3 divisions of main canal between Salter and Rariden fill. Noted June 28.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mich., Battle Creek** — Dredging — A. Briggs, drain comr., let contract dredging Porter Lake drain to Minor & Russell, Coldwater.

★**Ia., Des Moines**—Drainage—Joint D. D. No. 1, Polk and Storey Cos., let contract system to Nels S. Helland & Sons, Huxley, $29,500. Noted Aug. 9.

★**Ia., Emmetsburg**—Drainage—D. D. No. 98, Palo Alto Co., let contracts system involving 315,000 cu.yd. excava. as follows: A. Eikwald, labor, $30,300; Cement Products Co., Spencer, tile, $44,748; Schultz, Bieck, Clarion, open work, $25,219. Noted Aug. 9.

★**Minn., Faribault**—Ditch—Rice Co. let contract Co. Ditch No. 12 to Rood Constr. Co., Grand Rapids, Wis., about $23,274. Noted Aug. 2.

★**Colo., Lamar**—Drainage—Wiley Drain Dist. No. 1, Prowers Co., let contract 9¼ mi. open ditch involving 43¼ mi. 6- to 18-in. tile ditch to Saylor Constr. Co., Lamar. Noted Aug. 16.

★**Cal., Lasson**—Irrigation—Baxter Creek Irrigation Dist. let contract canal and dam to Shattuck-Edinger Co., Underwood Bldg., San Francisco.

INDUSTRIAL WORKS

Proposed Work

N. Y., New York—C. Hensle, 387 9th Ave., having plans prepared by M. & Lardsiedel, archts., 148th St. and 3rd Ave., 7-story, 30 x 200-ft. garage, Riverside Dr. and 134th St. About $150,000.

N. Y., S. I., New Brighton—Tanner Cross Co., Inc., 25 Beaver St., New York City, plans 5-story, 112 x 114 ft., cereal mill and warehouse. About $125,000. A. E. Baxter Eng. Co., engrs., Elliot Bldg., Buffalo, soon receive bids.

N. J., Harrison—H. R. Worthington Co., Harrison, had plans prepared for 2 factory additions. About $200,000.

N. J., Newark — Willys-Overland Co., Newark, plans 4-story, 80 x 240 ft. rein.-con. service station, Plane and Hackett Sts. George Hooper, 35 Halsey St., archt.

Pa., Pittsburgh—Natl. Supply Co., Union Bank Bldg., having plans prepared for warehouse, Preble Ave., Adams and Delaware Sts., N. S. About $50,000.

Va., Richmond—Kingan & Co. having plans prepared for rein.-con. abattoir on Hermitage Rd. About $80,000.

Ga., Atlanta — American Agricultural Chemical Co., 625 Empire Bldg., plans 70 x 600-ft. fertilizer factory, Peatree Creek. About $50,000. E. F. Daniels, genl. mgr.

Ga., Columbus—Columbus Power Co., 2nd Ave., controlled by Stone & Webster Eng. Co., 147 Milk St., Boston, plans additional unit to power plant. About $200,000. J. S. Bleecker, genl. mgr.

Ala., Mobile—Alabama Dry Docks & Shipbuilding Co. purchased tract at Royal and Canal Sts. and had plans prepared for a shipbuilding plant.

Tenn., Jackson—Illinois Central R.R. plans to improve and enlarge its yards and shops. About $180,000. Also build concrete office and storage building. About $65,000. A. S. Baldwin, Chicago, ch. engr.

Ky., Bowling Green—Persons & Scoville having plans prepared by C. Shopbell & Co., archts., 3-story, 75 x 140-ft. warehouse.

Ky., Louisville—Kentucky Pub. Elevator Co., 14th and Gallagher Sts., plans to rebuild portion of its factory recently destroyed by fire. About $75,000.

O., Akron—Sanitary Milk Co. having plans prepared by Practical Eng. Co., engrs., 535 Akron Savings and Loan Bldg., 2-story, 60 x 110-ft. milk depot. About $85,000.

O., Canton—Pennsylvania R.R. plans large new shops and roundhouse east of Canton. A. C. Shand, Broad St., Sta., Phila., ch. engr.

O., Cleveland—American Can Co., East 40th St., recently acquired site on Payne Ave., and plans to spend about $2,000,000 to build plant.

O., Cleveland—J. R. Glover, Hippodrome Bldg., having plans prepared garage and automobile storage plant, East 46th St. About $100,000.

O., Cleveland — Grable Mfg. Co., 6535 Bway., plans 66 x 104-ft. brick steel and rein.-con. factory. Christian Schwarzenberg & Gaede, archts., 1900 Euclid Ave., soon receive bids.

O., Cleveland—Natl. Mortgage Co., 603 Rockefeller Bldg., Cleveland, soon lets contract 7-story, 100 x 300-ft. rein.-con. and structural steel warehouse, Greene and Ladd Sts. About $300,000.

O., Cincinnati—See "Buildings."

O., Cincinnati—C. Schlear Motor Car Co. plans 3-story auto warehouse, 9th and Sycamore Sts. About $125,000.

O., Dayton—Citizens Motor Car Co., Cincinnati, plans 2-story, 75 x 170-ft. garage and salesroom. About $50,000 to $100,000. J. W. Tarbill, 7th and Main Sts., pres. A. Pretzinger and E. Musselman, 1126 Reibold Bldg., archts.

Industrial Work (Continued)

O., Dayton—Cooper Medicine Co., 309 East 1st St., had plans prepared 5-story, 50 x 8-ft. factory. About $175,000. Prezinger & Musselman, 1155 Riebold Bldg., archts.

O., East Cleveland—(Cleveland P. O.)—Cleveland Motor Plow Co., Euclid Ave. and Lomis St., Cleveland, having plans prepared for plant here. About $300,000.

O., Lakewood—Lake Erie Refining Co. had plans prepared by S. H. Weis, archt., 1032 Schofield Bldg., 2-story, market house, terra cotta and granite, Clifton and West 117th Sts. About $125,000.

Ind., Hartford City—Ft. Wayne Corrugated Paper Co., Murray and Barr St., Ft. Wayne, plans 1-story power house. About $75,000. Prather Eng. Co., 662 Rockefeller Bldg., Cleveland, engrs.

Ill., Chicago—Patterson-Sargent Co., St. Clair Ave., Cleveland, plans 5-story brick warehouse and factory, 20th and Lumber Sts.

Ill., Chicago—H. Piper Co., 1619 North Wells St., soon lets contract 1-story, 43 x 105-ft. bakery. About $60,000. W. Ahlschlager, 111 West Washington St., archt.

Ill., East St. Louis—American Manufacturing Co. of Massachusetts, has purchased site and plans bagging plant here. About $500,000.

Wis., Milwaukee — Heil Co., 26th and Montana Ave., having plans prepared by Klug & Smith, engrs., Mack Blk., 1 story, 130 x 200-ft. brick and steel addition. About $100,000. J. P. Heil, vice pres. and genl. mgr.

Ia., Muscatine—Ziegle Canning & Preserving Co. plans to rebuild plant recently destroyed by fire with loss of $60,000.

Ia., Sioux City—Lessenich, Estate soon lets contract 3-story garage. About $50,000. Beuttler & Arnold, 609 Security Bldg., archts.

Ia., Waterloo—Repass Auto Co. having plans prepared by C. P. Shockley, archt., 719 Black Bldg., for rein.-con. and brick garage. About $100,000.

Ia., Waterloo—Waterloo Engine Co. plans 150 x 600-ft. foundry. About $200,000.

Minn., Hibbing—See "Miscellaneous."

Minn., Minneapolis—Marfield Grain Co., 23rd and Marshall Sts., plans to build grain elevator. About $77,000.

Minn., West Duluth—(Duluth P. O.)—Duluth Iron Wks. Co. having plans prepared by Edward & Standuhar, Glencoe Bldg., Duluth, punch shop, machine shop, blacksmith shop and office.

S. D., Sioux Falls—Sioux Falls Coffee & Spice Co., 10th St., had plans prepared 4-story, 40 x 100-ft. plant, 426 East 12th St. A. Gloege, pres.

Wyo., Caspar—Standard Oil Co. plans large addition to its refinery here.

Tex., Texarkana—Texas & Pacific Ry. plans to build brick roundhouse. About $50,000. E. F. Mitchell, Dallas, ch. engr.

Tex., Tyler—Woldat Grocery Co., Tyler, plans large peanut manufacturing plant. About $250,000.

Okla., Bartlesville — Parsons Wholesale Grocery Co. plans 2-story building. About $50,000.

Idaho, Pocatello—Idaho Portland Cement Co., recently incorporated with $2,500,000 capital, plans cement manufacturing plant, capacity 1,000 bbl. per day. W. W. McCarthy and J. T. Young, Pocatello, interested.

Wash., Seattle—The Sunset Motor Co., 12th Ave. and East Pike St., had plans prepared 4-story, 60 x 112-ft. brick and concrete garage and salesroom. About $70,000. B. Johnson, 3838 Evanston Ave., archt., soon receives bids.

Wash., Spokane — Willys-Overland Co. having plans prepared brick garage and salesroom. About $150,000. V. W. Voorhees, Inc., Eitel Bldg., Seattle, archt.

Ore., Portland—Dock Comrs. having plans prepared by J. M. Witherspoon, engr., 3650 Pine Grove St., Chicago, 1,000,000-bu. grain elevator.

Cal., Huntington Park—City Dye Wks., 30th St. and Central Ave., Los Angeles, having plans prepared 8-story, brick building, by Paul C. Pape, archt., Consolidated Realty Bldg., Los Angeles.

Cal., Los Angeles—Wholesale Terminal Co. plans 6-story, cold-storage plant, 7th and Central Sts., to be leased to Terminal Refrigerating Co.

Cal., Los Angeles—Wilson & Co., 1000 Lynn St., plans 4-story, rein.-con. cooling plant. About $54,000.

Ont., Toronto—Canadian Genl. Electric Co., 212 King St., W., plans new warehouse. About $100,000.

Ont., Toronto—Thor Iron Wks., Bathhurst St., having plans prepared for rein.-con. and brick factory. About $75,000.

BIDS DESIRED

N. Y., Ogdensburg—(Official)Until Sept. 12, by State Hospital Comn., Capitol, Albany, construction work for power plant, Lawrence State Hospital; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—General Electric Co., 84 State St., let contract 4-story, 80 x 34-ft. brick and rein.-con. factory, Porter Ave., N., to W. Bailey Co., 88 Broad St. About $210,000. Noted May 31.

★**Mass., New Bedford**—Paipont Co., Howland St., let contract building 4-story, 100 x 200 ft. warehouse to J. W. Bishop Co., 417 Butler Ex. Bldg., Providence, $350,000.

★**Conn., Fairfield**—Bullard Machine Tool Co., 585 Broad St., Bridgeport, let contract 5 buildings; main building, 180 x 700-ft. brick and steel, to W. R. Phillips, Newfield Bldg., Bridgeport, $1,000,000.

★**Pa., New Castle**—American Sheet & Tin Plate Co. let contract 2-story, 56 x 70-ft. addition to Cuthbert Bros., Bessemer Bldg., Pittsburgh, $50,000.

N. Y., New Hampton—Comr. Correction Municipal Bldg., New York City, received low bid building power house and connecting tunnels at New York City reformatory from Frymier & Hanna, 25 West 45th St., New York City, $53,968. Noted Aug. 9.

★**Ill., Galesburg**—McCullon Bros. let contract 4-story, 57 x 150-ft., rein.-con. candy factory to Monmouth Constr. Co., 222 Bank of Galesburg Bldg., $100,000.

★**Ill., Moline**—Williams & White, 3rd Ave. and 18th St., let contract forging plant to P. H. Lorenz, 7th St. and 19th Ave., $200,000.

★**Que., Shawinigan Falls** — Canadian Aloxite Co. let contract new factory to Church Ross & Co., 40 Hospital St., Montreal, $50,000.

BUILDINGS

Proposed Work

N. H., Nashua—High School—City soon lets contract, 3-story, 150 x 165-ft. About $200,000. G. H. Alley, 69 Concord St., chn. bldg. com. T. M. James, 185 Devonshire St., archt.

Mass., Middleton—Hospital—Essex Co. Comrs., Court House, Salem, had plans prepared by J. H. Bickford, archt., 110 State St., Boston, 5 2-story buildings.

Mass., New Bedford—Hospital—City having plans prepared by J. S. McIntyre, archt., Clifford Bldg.

Conn., New Haven—Station—New York, New Haven & Hartford R.R. plans, 4-story, 90 x 300 ft. E. Gagel, New Haven, ch. engr. Cass Gilbert, 244 Madison Ave., New York City, archt.

N. Y., Albany—Office—L. F. Pilcher, state archt., Capitol Bldg., prepared plans for addition west of Capitol.

N. Y., Binghamton—School—Bd. Educ. had plans prepared by T. I Lacey & Son, archts., 1110 Press Bldg., for addition. About $50,000. M. R. F. McCarthy.

N. Y., Kingston—Theater—S. Bernstein, and associates, 173 Pearl St., plan, 1- and 2-story. About $60,000. G. W. Botz, 61 John St., archt.

N. Y., New York — Hospital — Dept. Health, Center and Walker Sts., had plans prepared by W. A. Austin, archt., 46 West 24th St., 4-story, Schieffelin Pl., Seton Ave. and 233rd St. (Bronx Boro.) to be largest contagious hospital in world.

N. Y., Pomfret—Tuberculosis Hospital—Newton Memorial Hospital having plans prepared by J. F. Warner, archt., Granite Bldg., Buffalo, 2- and 3-story, brick and concrete. About $135,000. B. H. Philips, 804 Morgan Bldg., Buffalo, trustee.

N. J., Rahway—Temple—Craftsmans Club had plans prepared by S. Williams, archt., Woodruff Bldg., 2-story, 50 x 150-ft. About $50,000.

N. J., Red Bank—School—Bd. Educ. having plans prepared by E. A. Arend, archts., Kimmouth Bldg., Asbury Park, 2-story, 75 x 123-ft., and extension 50 x 75-ft. adjoining high school. About $100,000. R. Strong, pres.

Pa., Abington—High School—Bd. Educ. plans 3-story addition. About $50,000. L. Foster, secy. Hancock & Hokanson, Bailey Bldg., Phila., archts.

Pa., Ashley—High School—Bd. Educ. having plans prepared by A. Reilly, archt., Bennett Bldg., Wilkes-Barre, 2-story, 78 x 118-ft. About $100,000.

Pa., Bloomsburg — Bank and Office — Columbia Co. Trust Co. had plans prepared by V. T. Ritter, archt., First Natl. Bank Bldg., Huntington, W. Va., 4-story, 24 x 120-ft., brick and concrete.

Pa., Cambria—School—Immaculate Conception Church having plans prepared. About $60,000.

Pa., Johnstown—Junior High School—Bd. Educ. plans. About $300,000. C. H. Myer, secy. J. E. Adams, Lincoln Bldg., and G. Wild, 734 Main St., archts.

Pa., Johnstown—Hospital—Bd. Corporators of Lee Memorial Hospital having plans prepared by Henry M. Rogers, archt., Trust Bldg., Johnstown, 5-story, at 320 Main St.

Pa., Phila.—Club House and Auditorium—Phila. Musical Assn. plans, 3-story, 60 x 132 ft. About $100,000. A. Hirschburg, 259 North 6th St., pres. F. E. Hahn and Max Hirschberg, 1112 Chestnut St., archts.

Pa., Phila.—Bank—Olney Bank, 5th St. and Tabor Rd., plans 1-story. About $50,000. T. Tansey, pres.

Pa., Phila.—Hotel—Bonwit Teller Co. plans improving. About $400,000. S. Rosenbaum, 13th and Chestnut Sts., mgr. LeRoy Rothschild, Juniper and Filbert Sts., archts.

Pa., Phila.—House of Correction—City soon lets contract(2- and 3-story. About $89,000. C. Oelschlager, 1613 Walnut St., archt.

Pa., Phila.—Hospital—Babies Hospital plans. About $50,000. C. A. Fife, 2038 Chestnut St., pres. Duhring, Okie & Zeigler, 1220 Chestnut St., archts.

Pa., Pittsburgh—Y. M. C. A. plans new building, 7th Ave. and Bigelow Blvd. About $1,000,000. R. W. Harbison, pres.

Del., Laurel—High School—Bd. Educ. plans, 2-story. About $55,000. W. E. Hance, 204 West 24th St., Wilmington, archt.

Md., Baltimore—School—Bd. Educ. plans school, principals residence and gymnasium. About $50,000. F. Cookman Leach, archt., 323 North Charles St., soon receives bids.

Va., Norfolk—Office and Loft—Tazwell St. Realty Co., Tazwell St., had plans prepared by R. E. Mitchell, archt., Greenwood Bldg., 6-story, 130 x 144-ft. concrete. About $300,000.

W. Va., Huntington—Bank—Union Savings Bank & Trust Co. having plans prepared by Bankers' Eng. Co., archts., 11 East 19th St., New York City, 10-story, rein.-con. About $250,000.

Fla., Tallahassee—Dormitory and Educational—Florida State College for Women having plans prepared. About $90,000.

Ala., Birmingham — Seminary — Loulie Compton Seminary secured site at Edgewood and plans new building to be known as Birmingham Seminary. About $50,000.

La., Thibodaux—Hotel—Lafourche Hotel Co., recently organized, plans. About $60,000. N. T. Bourg, pres.

Tenn., Jackson—Office—See "Industrial Works."

Ky., Frankfort—Hotel—Capitol Hotel Co. had plans prepared, 4-story. About $75,000. C. C. and E. A. Weber, Citizens Bank Bldg., Cincinnati, archts.

O., Cincinnati — Commercial — Leyman Brick Co., 630 Walnut St., had plans prepared by G. W. Drach, archt., Union Trust Bldg., 10-story commercial building and service station, 7th and St. Clair Sts. About $200,000.

O., Cincinnati—Exchange—Cincinnati & Suburban Telephone Co. will issue $1,716,650 additional stock. Part of proceeds will be used for new buildings.

O., Cincinnati—Freight Terminal—Baltimore & Ohio R.R. plans huge freight terminal here. H. Lane, Baltimore, ch. engr.

O., Cleveland—Church—St. Elizabeths Hungarian Congregation soon lets contract, 1-story, 50 x 100 ft. About $120,000. Julius Szepessy, 9016 Buckeye Rd., pastor. E. Ulrich, 1900 Euclid Ave., archt.

O., Cleveland Heights—(Warrensville P. O.)—Home—Montefiore Home for Aged and Infirm Israelits, had plans prepared, 2- or 3-story. About $75,000. C. R. Greco, 729 Guardian Bldg., Cleveland, archt.

Buildings (Continued)

O., Dayton—Bank—Gem City Building & Loan Assn., having plans prepared by Schenk & Williams, archts., 591 Arcade Bldg., 1-story, 38 x 60-ft. About $100,000. O. L. Bard, 8 North Main St., mgr.

O., Lakewood—Store—J. H. Greenberg, 1291 East Blvd., secured site and plans, 4-story concrete, on Detroit St. About $50,000.

O., Rawson—Grade and High School—Bd. Educ. soon lets contract. About $60,000. McLaughlin & Huisken, Savings Bldg., Lima, archts.

Ind., Ft. Wayne—Bank and Office—Citizens Trust Co., Berry and Clinton Sts., plans to remodel, 4-story. C. R. Weatherhogg, Hamilton Natl. Bank Bldg., archt.

Ind., Indianapolis—Hotel—Lincoln Hotel Co. having plans prepared by A. E. Metzger and Rubush & Hunter, archts., Amer. Central Life Bldg.

Ind., Lafayette—Hospital—Home Hospital Assn. had plans prepared by Schmidt, Garden & Martin, archts., 104 South Michigan Ave., Chicago, 4-story. About $90,000.

Mich., Detroit—High School—Bd. Educ. had plans prepared by Malcomson & Higginbotham, archts., 404 Moffat Bldg., for Cass Technical High School, 1, 2 and 3 units. About $125,000. C. Gadd, secy.

Mich., Detroit—Jail—Wayne Co. had plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, on Baubien St. between McComb and Clinton Sts. About, $1,500,000.

Ill., Chicago—Church and Chapel—Grace Episcopal Congregation, 2001 Prairie Ave., soon lets contract rebuilding. About $200,000. B. G. Goodhue, 2 West 47th St., New York City, archt.

Ill., Chicago — Church — St. Hyacinths Congregation plans, 1-story, 130 x 210 ft. About $200,000. Rev. John Zdechlik, 3636 Wolfram St., pastor. Worthmann & Steinbach, archts., 155 North Clark St., will soon receive bids.

Ill., Chicago — Hotel — Kercher Hotel & Dodge Co. receives bids about Oct. 1, 12-story, 80 x 171-ft. About $1,150,000. W. Ahlschlager, 1740-44 Conway Bldg., archt.

Ill., Chicago—Theater, Office and Store—Jones, Linck & Schaefer, 112 South State St., had plans prepared by C. W. & G. L. Rapp, archts., 69 Washington St., brick and steel, 47th and Marshfield Sts. About $250,000.

Ill., Riverside—School—F. I. Bennett, comr. pub. wks., Chicago, soon lets contract dining hall, 3 dormitories, etc. C. W. Kallal, City Hall, archt.

Ill., Rockford—Hotel—Nelson Hotel Co. having plans prepared by Miller, Fullenwider & Dowling, archts., 6 North Michigan Ave., Chicago, 5-story, 56 x 150-ft. addition. About $300,000. J. A. Oberg, Main and Chestnut Sts., mgr.

Wis., Kenosha—Store and Office—V. C. Wolff having plans prepared by R. A. Messmer & Bro., archts., Pabst Theater Bldg., Milwaukee, 4-story, 80 x 100-ft. About $100,000.

Wis., Park Falls — City Hall — Council having plans prepared by A. Messmer & Bro., archts., Pabst Theater Bldg., Milwaukee. About $60,000.

Wis., Sagole — (Kaukaunna P. O.) — Church—Freedom Congregation plans, 2-story, 72 x 147 ft. About $80,000. F. Peters, pastor. Foeller & Schober, 123 North Washington St., Green Bay, archts.

Wis., Wauwatosa — Children's Cottage Muirdale Tuberculosis Hospital soon lets contract, 2-story, 50 x 200-ft. About $60,000. D. H. Davies, Administration Bldg., secy. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, archts.

Wis., Wauwatosa — Psychopathic — Milwaukee Co. soon lets contract 2 buildings. About $85,000. R. A. Messmer & Bro., Majestic Bldg., Milwaukee, archts.

Ia., Des Moines—Church—Grace Methodist Congregation having plans prepared, 3-story, 114 x 146 ft. About $125,000. E. E. Higley, pastor. N. T. Vorse, S. & L. Bldg., archt.

Ia., Dubuque—Hotel and Store—Larimier House Hotel Co., 1552 Locust St., having plans prepared by L. Stevens & Co., archts., 910 South Michigan Ave., Chicago, 8-story, 60 x 146-ft., Julian Ave. and Bluff St. About $210,000. D. H. McCarthy, mgr.

Ia., Spencer—School—Bd. Educ. plans rebuilding 2-story, recently destroyed by fire. About $70,000. F. A. Cook, secy. J. D. Chubb, 109 North Dearborn St., Chicago, archt.

Minn., Minneapolis—Bible School, Auditorium, Store and Office—North Western Missionary and Training School having plans prepared by Burner & Macomber, archts., 945 McKnight Bldg., 12-story, 132 x 250-ft. About $1,000,000.

Minn., Minneapolis—Hotel and Arcade—McMichael Investment Co. plans, 12-story, 50 x 150 ft. About $200,000. H. E. Williams, 600 Wilmac Bldg., pres.

Minn., Minneapolis—School—Bd. Educ. plans, 2-story. About $65,000. R. V. L. Haxby, Court House, archt.

Minn., Lakefield—High School—Bd. Educ., Ind. School Dist. No. 3 plans, 2-story, 120 x 120 ft. About $75,000. K. T. Snyder, 1103 Plymouth Bldg., Minneapolis, archt.

Minn., St. Cloud—Hotel and Store—Riverview Hotel Co. had plans prepared by A. J. Mille, archt., 714 Plymouth Bldg., Minneapolis, 4-story. W. A. Bach, pres.

Minn., St. Paul—Store and Office—Cushing & Driscoll, 291 Endicott Bldg., had plans prepared by R. T. Newberry, archt., 108 South Lasalle St., Chicago, brick, 6th and Peter Sts., about $1,000,000.

Minn., Virginia—High and Manual Training School—Bd. Educ. plans to build. About $375,000. C. E. Nystrom, archt., Seelwood Bldg., soon receives bids.

Kan., Garden City,—High School—Bd. Educ. plans, 3-story, 58 x 110-ft., brick. About $50,000. E. J. Dumond, clk. W. E. Hulse & Co., 1st Natl. Bank Bldg., Hutchinson, archts.

Kan., Topeka — Home — Knights and Ladies of Security plan to build. About $50,000.

Kan., Topeka — Hotel — North American Hotel Co., Omaha, Neb., plans 10-story, 9th St. and Kansas Ave. About $500,000.

Neb., Omaha—Hotel and Office—Home Builders, Brandies Theater Bldg., plans, 7-story, 110 x 120 ft., 18th and Dodge Sts. About $300,000. J. T. Allen, 224 Brandies Theater Bldg., archt.

S. D., Eden—Church—Roman Congregation plans, 1- and 2-story, 50 x 140 ft. and 32 x 34 ft., church and parish house. About $60,000. Anton Dohman, 1st Natl. Bank Bldg., archt.

Wyo., Casper—Lodge—B. P. O. E. plans. About $150,000.

Mont., Great Falls—School—Bd. Educ. plans, 2-story, 60 x 140 ft. About $165,000. Bird & Van Toylingen, archts.

Mo., St. Joseph—Maternity Hospital — City having plans prepared by Trunk & Gordon, archts., Donnell Court Bldg., on 15th and Edmond Sts. About $70,000.

Ark., Little Rock—Office—U. S. Auto Co., 20th and Main Sts., had plans prepared. 123 x 150-ft. About $100,000. M. S. McCord, mgr.

Tex., Bryan—School—City School Bd. plans election to vote $100,000 bond issue for school.

Okla., Miami—Hospital—Baptist Hospital—Baptist Hospital Assn. plans. About $70,000. Address F. M. McConnell, supt. of Missions, Oklahoma City.

Colo., Canon City—Church—First Presbyterian Congregation plans. About $50,000. J. W. Domdley, pastor.

Utah, Beaver—Schools—Beaver Co. election soon to vote on $125,000 bond issue to build schools. Ashworth & Nelson, Provo City, archts., preparing plans.

Cal., Azusa—School—City had plans prepared by Allison & Allison, archts., Merchants Natl. Bank Bldg., Los Angeles. About $50,000.

Cal., Oakland—Exchange—Pacific States Telephone & Telegraph Co. plans, 6-story, Class "A" building.

Cal., Oakland—Hospital—Alameda Co. voted $100,000 bonds to build hospital.

Cal., San Francisco—Hotel—Ramona Hotel, Ellis St., having plans prepared by Smith & Stewart, archts., Monadnock Bldg., 3-story, rein.-con. addition. About $50,000.

Cal., San Francisco — Hotel — Stewart Hotel Co. having plans prepared for addition, by Cunningham & Politeo, archts., 1st Natl. Bank Bldg. About $150,000.

Cal., San Francisco—Office—White Investment Co., Newhall Bldg., plans, brick and concrete, Battery near California St. About $80,000.

Cal., San Francisco — Theater — Max Blumenfeld plans, 100 x 101 ft., rein.-con. Kearnby St. and Bway., to seat 2000 people. Weeks & Day, Mutual Savings Bank Bldg., archts.

Que., Quebec—School—Bd. Educ. c/o G. E. Tanguay, archt., 20 D'Aiguillon St., soon lets contract, brick and stone. About $136,000.

BIDS DESIRED

Pa., Chester—High School—Until Sept. 21, by Bd. Educ., Hoskins Bldg., 5th and Welch Sts., 5-story, 115 x 240-ft. About $400,000. C. S. Adams, 1509 Arch St., archt. Noted Aug. 2.

Pa., Uniontown—Until Sept. 4, by Y. M. C. A., 4-story, 76 x 90 ft. H. W. Altman, 1st Natl. Bank Bldg., archt. Noted May 10.

O., Cleveland—Hotel—Until Oct. 1, by Estates Improv. Co., c/o G. T. Tenstash, Union Bldg., 12-story, 65 x 150-ft., Euclid Ave. and East 59th St. About $450,000. H. T. Jeffrey, 1836 Euclid Ave., archt. Noted Aug. 23.

O., Cleveland Heights—(Warrensville P. O.)—School—Until Sept. 15, by F. Warner archt., 718 Hippodrome Bldg., Cleveland. About $180,000. L. K. Bryan, 3867 Parkdale Ave., secy. bd. educ.

Ind., Crawfordsville—**High School**—Until Sept. 10, by Bd. Educ., 12-room addition. L. N. Hines, supt. R. F. Daggert, 926 Lemke Annex, Indianapolis, archt. Noted May 31.

Ind., Indianapolis—Until Sept. 30, by Antioch Baptist Congregation. N. E. Joseph, 136 South Catherwood St., pastor. W. O. Marck, Lombard Bldg., archt.

Ia., Letts—School—Until Sept. 13, by Ecklan Fugard & Knapp, archts., McKinnie Bldg., Moline, Ill., 2-story, 70 x 120-ft. About $50,000. Noted July 26.

Minn., Virginia — High School — Until Sept. 12, by Bd. Educ. About $400,000. C. E. Nystrom, Sellworth Bldg., Duluth, archt.

Kan., Concordia—High and Grade Schools—Until Sept. 11 (change of date), by Bd. Educ., brick; about $55,000. W. E. Hulse & Co., 1st Natl. Bank Bldg., Hutchinson, archts. Noted June 28.

Tex., El Paso—Cathedral—Until Sept. 10, by El Paso Consistory, Scottish Rite Masons. About $200,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—Hospital—City received low bid ward building from Crowley & Hickey, 1140 Columbus Ave., Roxbury, $80,444. Noted Aug. 16.

★**Mass., Cambridge**—Store and Office—Olympia Theatre Co., 3 Tremont Row, Boston, let contract, to J. M. & C. J. Buckley Co., 164 Federal St., Boston. About $400,000. Noted May 17.

★**Pa., Phila.**—Freight House—Phila. & Reading R.R. let contract 1-story, brick and steel addition to freight house No. 4, Noble St., to A. L. Carhart, Hale Bldg., $50,000.

★**Del., Newark**—Women's Dormitory—Delaware College let contract, 4-story, 30 x 48-ft. to J. H. Wells, 112 South 16th St., Phila., $75,000. Noted Aug. 23.

★**Wash., D. C.** — (Official) — Parochial School—Holy Trinity Congregation let contract, 2-story, concrete and brick, to Boyle-Robertson Co., 2602 Wisconsin Ave., $140,000. Noted July 19.

★**La., New Orleans**—Hotel—H. C. Buckley let contract, brick, West End Rd., to J. E. Petty, Godchaux Bldg., $200,000

★**O., East Cleveland**—(Cleveland P. O.)—School—Bd. Educ. let contract addition to Chambers School to Minnick-Gibbons Constr. Co., 5309 Prospect Ave., Cleveland. About $50,000.

★**Wis., Madison**—Y. M. C. A. let contract 5-story building West Washington and South Fairchild Sts., to J. Findorff, Madison, $210,000.

★**Minn., Fairmont**—(Official)—School—Bd. Educ., East Chain Twp., let contract to Pick & Lehman, 710 Cherokee Ave., St. Paul, $22,357. Noted Aug. 16.

★**Minn., St. Paul**—Hotel—C. J. Minor, Dayton and Virginia Aves., let contract, 11-story, brick, terra cotta and granite, to G. J. Grant Co., 902 N. Y. Life Bldg., $1,000,000.

Buildings (Continued)

★**S. D., Spearfish** — Gymnasium — State Normal School let contract, 2-story, 100 x 100-ft., to Anderson-Taylor Constr. Co., 533 Lumber Exchange, $65,000. Noted July 5.

★**Wash., Seattle**—School—Bd. Educ. let contract Whitworth School to Scherer & Carlson, University Campus. About $75,-600.

★**Cal., Oxnard Bank**—First Natl. Bank let contract, 65 x 100-ft., to Los Angeles Planing Mill Co., 1812 Industrial St., Los Angeles, $55,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Kan., Ft. Riley — Bridge — Constructing Quartermaster rejected bids opened Mar. 27 for replacing bridge over Republican River; same were in excess of appropriation.

BIDS DESIRED

Pa., Phila. — Dredging — Until Sept. 10, by Bureau of Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., dredging at Navy Yard.

Del., Wilmington — Jetty Work — Until Sept. 22, by U. S. Engr. Office, Old Federal Bldg., repairs to jetties at mouth Mantua Creek, N. J.

Va., Norfolk—Tank and Tower—Until Sept. 10 (change of date), by Bureau of Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., furnishing and installing 150,000 gal. elevated steel tank and tower. Noted Aug. 23.

Fla., Key West—Metal Work, etc.—Until Oct. 30, by Lighthouse Inspector; advertised in this issue.

Fla., Tampa—Dolphins, Etc.—Until Sept. 17, by J. A. Wetmore, superv. archt., treas. dept., Wash., for 2 additional dolphins and furnishing and installing complete 32 spring buffers at wharf of Quarantine Sta.

Miss., Vicksburg—Levee—Until Sept. 11, by Third Mississippi River Dist., Box 404, constructing about 1,000,000 cu.yd.; advertised in this issue.

Miss., Vicksburg—Levee—Until Sept. 12, by Third Mississippi River Dist., Box 404, constructing about 303,000 cu.yd.; advertised in this issue.

Tenn., Memphis—Machinery—Until Sept. 26, by Mississippi River Comn., 1st and 2nd Dists., Custom House; advertised in this issue.

Mich., Detroit—Lumber—Until Sept. 10, by Light House Inspector, P.O. Bldg., furnishing about 35,000 B. M. miscellaneous framing lumber for Sand Hills Light Sta.

Minn., St. Peter—Post Office—Until Oct. 4, by J. A. Wetmore, superv. archt., treas. dept., Wash.

N. M., Farmington—Bridge—Until Sept. 24, by Cato Sells, comr. Indian Affairs, Wash.

Cal., San Francisco—Wharf—Until Oct. 2, by J. A. Wetmore, superv. archt., treas. dept., Wash., rebuilding west wing at wharf at quarantine station, Angel Island.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Chatham**—Coastal Air Station—Bureau of Yards and Docks, Navy Dept., Wash., let contract to Coleman Bros., Chelsea, cost plus percentage.

Mass., Hingham—Magazine Storehouses—Bureau of Yards and Docks, Navy Dept., Wash., received low bids 2 magazine storehouses, (a) net price work complete, (b) net price work complete excepting columns, etc., as follows: Kennedy & Patterson Constr. Co., 7 Water St., Boston, (a) $106,200, (b) $104,200; T. H. Wiese, 1301 City Natl. Bank, Omaha, (a) $126,000; Howard Bros., 412 Dorchester Ave., Boston, (a) $128,875, (b) $124,875. Noted Aug. 16.

Conn., New London — Storehouse — Bureau of Yards and Docks, Navy Dept., Wash., received low bids (a) work complete, (b) alternate design, from P. J. Carlin Constr. Co., 1123 Bway., New York City, (a) $129,800; Industrial Eng. Co., 30 Church St., New York City, (a) $131,585, (b) $130,100. Noted Aug. 9.

N. Y., New York—Electric-Lighting System—Bureau of Yards and Docks, Navy Dept., Wash., received low bids from L. K. Comstock, 30 Church St., $10,490; T. F. Jackson, 99 John St., $12,690; Hatzel & Buehler, Inc., 373 4th Ave., $12,710. Noted Aug. 9.

Pa., Franklin—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid from W. H. Fissell, 1328 Bway., New York City, $98,600 limestone and $104,600 sandstone. Noted July 26.

Pa., Harrisburg—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids extension to post office from A. Wildman, 2206 North 3rd St., $58,-200; Gohl & Bruaw, 310 Strawberry St., $59,198; J. L. Menough & Son, York, $69,875.

Pa., Phila.—Heating System—Bureau of Yards and Docks, Navy Dept., Wash., received low bids heating system for machine and electrical shop, Navy Yard, from Mathis Bros. Co., Archer Ave. and Canal St., Chicago, $33,892; H. L. Crook Co., Inc., 28 Light St., Baltimore, $40,467; G. R. Bullen, 600 North Howard St., Baltimore, $41,888. Noted Aug. 16.

★**Pa., Phila.**—Heating Apparatus—Bureau of Yards and Docks, Navy Dept., Wash., let contract humidifying and heating apparatus in aircraft factory at Navy Yard to Carrier Eng. Co., Land Title Bldg., $74,500.

Wash., D. C.—Magazine Storehouses—Bureau of Yards and Docks, Navy Dept., received low bids (a) 2 storehouses at Lake Denmark, N. J., (b) 1 at Ft. Mifflin, Pa., (c) 1 at St. Julians Creek, Va., (1) work complete, (2) work complete, except columns, etc., as follows: Columbus Circle Co., 51 East 42nd St., (a-1) $106,000, (a-2) $96,000; Hamilton-Chambers Co., Inc., 29 Bway., (a-1) $116,260, (a-2) $110,814; Snare & Triest, Woolworth Bldg., (a-1) $121,400, (a-2) $122,300, all of New York City; J. H. Miller, Eutaw and Franklin Sts., Baltimore, (b-1) $64,700, (b-2) $62,-700; J. H. Wiese, 1301 City Natl. Bank, Omaho, (b-1) $64,750; W. W. Austine & Co., Transportation Bldg., Phila., (b-1) $98,-545, (b-2) $92,925; Boyle-Robertson Constr. Co., Inc., Evans Bldg., (c-1) $66,205, (c-2) $66,125 W. H. Fissell & Co., 1328 Bway., New York City, (c-1) $106,200, (c-2) $102,-200. Noted Aug. 9.

Wash., D. C.—Storehouse—Bureau of Yards and Docks, Navy Dept., received low bids storehouse at Hampton Roads, (a) work complete, (b) addition, (c) addition, as follows: Cramp & Co., Denckla Bldg., Phila., (a) $480,000, (b) $24,500, (c) $24,-300; Jas. Stewart & Co., Inc., 30 Church St., New York City, (a) $487,200, (b) $25,000, (c) $28,000; Industrial Eng. Co., 30 Church St., New York City, (a) $510,000, (b) $27,-000, (c) $28,000. Noted Aug. 23.

S. C., Charleston—Shell House, etc.—Bureau of Yards and Docks, Navy Dept., Wash., received low bids 1 shell house, 1 torpedo storehouse and 1 magazine building at Navy Yard and Naval Ammunition Depot, (work complete), from Simons-Mayrant Co., Charleston, $121,480; Boyle-Robertson Constr. Co., Inc., Evans Bldg., Wash., $134,-051; W. T. Hadlow & Co., 831 Park St., Jacksonville, $147,000. Noted Aug. 9.

★**Fla., Key West**—Residence and Pump House—Fish Comn., Dept. Commerce, let contract residence and pump house at Marine Biological Sta. to Fuquay & Gheen, Daytona, $19,000. Noted Aug. 2.

★**Tenn., Memphis**—Aviation School—Constructing Officer, Aviation Sect., Army Signal Corps, let contract to Thomas, Harmon & Co., St. Louis, about $750,000.

★**Ky., Lancaster**—Post Office—J. A. Wetmore, superv. archt. treas. dept., Wash., let contract to A. W. Lane, 19 South La Salle St., Chicago, $28,496. Noted Aug. 23.

★**O., Dayton**—Aviation School—Constructing Officer, Aviation Sect., Army Signal Corps, let contract to Frank Hill Smith, 1035 Riebold St., about $400,000.

★**O., Lowell**—Sand and Gravel—W. P. Stokey, Major, Corps of Engrs., Cincinnati, let contract furnishing sand and gravel for recaping Dam No. 3, Muskingum River, to Marietta Sand Co., St. Clair Bldg., Marietta.

★**Tex., Ft. Worth**—Aviation School—Constructing Officer, Aviation Sect., Army Signal Corps, let contract to J. W. Thompson Co., Boatmen's Bank Bldg., St. Louis, cost between $1,500,000 and $2,000,000.

★**Tex., Waco**—Aviation School—Constructing Officer, Aviation Sect., Army Signal Corps, let contract to F. H. Jones, Dallas, about $750,000.

★**Tex., Wichita Falls**—Aviation School—Constructing Officer, Aviation Sect., Army Signal Corps, let contract to Gilsonite Co., Wainright Bldg., St. Louis, about $800,000.

Colo., Glenwood Springs—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, Aug. 29, as follows: Chas. Weitz Sons, 713 Mulberry St., Des Moines, $76,200; J. H. Wiese, 1301 City Natl. Bank Bldg., Omaha, $79,790; A. Goodhan, Wahoo, Neb., $92,000. Noted Aug. 9.

MISCELLANEOUS

Proposed Work

Memorial Court—New York, N. Y.—Columbia University had plans prepared by McKim, Mead & White, archts., 101 Park Ave., for Van Anaringe Memorial Court in South Field. About $17,000.

Elimination Grade Crossings—Syracuse, N. Y.—New York Central R.R. preparing plans. G. W. Kittredge, New York, ch. engr.

Elimination of Grade Crossings—Madison, N. J.—Boro. Council authorized bond issue of $159,000.

Pier—Marcus Hook, Pa.—Texas Co. plans to extend pier at plant here 186 ft.

Creek Improvements—Norfolk, Va.—Finance Com. appropriated $20,000 improvements to Smith's Creek and $10,000 for Newton's Creek. W. H. Taylor, Jr., city engr.

Garbage Disposal Plant—Ashland, W. Va.—City plans election to vote on $250,000 bonds to build garbage disposal plant.

Marine Ways—Brunswick, Ga—American Shipbuilding Co. will build 3 additional marine ways on river front. M. Brown, 11 Bway., New York City, vice-pres. and genl. mgr.

Seawall—Fla., West Palm Beach—See "Streets and Roads."

Pipe Line—Lexington, Ky.—Cumberland Pipe Line Co., will increase capital from $1,000,000 to $1,500,000, to enlarge and extend Irvine pipe line. H. B. Robinson, ch. engr.

Incinerator—Paducah, Ky.—(Official)—City postponed building incinerator until 1918 as there is no appropriation available for work. Noted Aug. 2.

Incinerator—Hibbing, Minn.—City purchased 80-acre site and will build incinerator and gas plant. E. D. Hawley, city engr.

Levee—Newport, Ark.—Newport Levee Dist., Jackson Co., retained Morgan Eng. Co., Goodwin Institute to prepare plans and supervise construction of levee work.

Subway—El Paso, Tex.—Citizens defeated $150,000 bond issue to build, under railway tracks. G. Espy, city engr.

Park—Hugo, Okla.—City voted $15,000 bonds to build park.

Dam—Baker, Ore.—Lower Powder Irrigation Co. retained J. W. Bailey, city engr., to prepare plans for rein.-con. dam on Lower Powder River.

Harbor Improvements—Hermosa Beach, Cal.—City election Sept. 18th to vote on $100,000 bonds for harbor improvements.

BIDS DESIRED

Freight Conveyors—Albany, N. Y.—(Official)—Until Sept. 12, by W. W. Wotherspoon, supt. pub. wks., Capitol, furnishing and installing under Contract No. 103-A; advertised in this issue.

Flood Protection—Corning, N. Y.—(Official)—Until Sept. 19, by Bd. Pub. Wks., conduits and appurtenances for improvement of Monkey Run; advertised in this issue. Noted May 10.

Electric Work—Farmingdale, N. Y.—(Official)—Until Sept. 11, by Hon. W. W. Mills, secy. bd. trustees, 1224 Woolworth Bldg., New York City, electric work at New York State School Agriculture; advertised in this issue.

Retaining Wall—Newton, N. J.—Until Sept. 17, by Bd. Freeholders Sussex Co., rein.-con., 1st section Ross's Corner Sussex Rd. H. Snook, co. engr.

Harbor Improvements—Mobile, Ala.—(Official—Until Sept. 25, by H. Pillans, mayor, for harbor improvements at Arlington site. About $600,000. W. Smith, city engr. Noted Aug. 23.

Piling—Columbus, O.—(Official)—Until Sept. 10, by Dept. Pub. Wks., State House Annex, driving protection piling in Cuyahoga River along foot of bank of Ohio and Erie Canal. J. I. Miller, supt.

Retaining Wall—Dayton, O.—(Official)—Until Sept. 20 by Montgomery Co. Comrs., rein.-con., on Owl Creek, Miami Twp. W. H. Aszling, clk.

Miscellaneous (Continued)

Creek Improvements—Lancaster, O.—Until Sept. 8, by Comrs. Fairfield Co., deepening, widening and improving channel of Rush Creek, Perry and Fairfield Cos.

Garbage Incinerator—Waukegan, Ill.—(Official)—Until Sept. 10, by City Council. J. H. Marseilles, clk., advertised in this issue.

Dock—Seattle, Wash.—Until Sept. 10 by Comrs. King Co., on Duwamish Waterway to serve Pacific Oil Mills, 1816 4th St., S. About $35,000. S. J. Humes, 3rd and James Sts., co. engr. Noted May 24.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Sluice Gates—South Boston, Mass.—(Boston P. O.)—State Highway Comn. Boston, let contract to Coffin Valve Co., Wollaston, $21,500.

Piers—Albany, N. Y.—(Official)—W. W. Wotherspoon, supt. pub. wks., received low bids piers, dolphins, etc., on Gowanus Bay, Brooklyn, Terminal Contr. No. 55, from Riverside Contr. Co., 39 Cortland St., $509,861; Snare & Triest, Woolworth Bldg., $557,343; G. W. Rogers Co., Inc., 29 Bway., $561,146; all of New York City. Noted July 26.

★Levee—Wainright, Mo.—Comrs. Callaway Co., Fulton, let contract levee to protect 1700 acres to Chas. Thompson, Omaha, about $2 ,000.

★Wharf—Orange, Tex.—Southern Pacific Ry. let contract 100-ft. wharf, 3rd St., to Midland Bridge Co., 504 Midland Bldg., Kansas City, Mo.

Tunnels—San Francisco, Cal.—Bd. Pub. Wks. received only bid building 18 mi. tunnels for Hetch-Hetchy Water supply project from R. C. Storrie & Co., 2379 Market St., about $9,250,000, which was rejected as too high. Noted July 19.

The City of San Juan, Porto Rico, is said to be experiencing greater building activity than at any previous time in its history, notwithstanding increased costs of labor and building materials. Not only has the war increased the cost of labor for building, but ocean freight rates have advanced enormously. As the greater part of building materials, such as cement, lumber, plumbing, electrical supplies, etc., are shipped from the United States, it may be seen that the costs of these articles are much higher than in the States.

In San Juan alone, a conservative cost of building under construction or just being completed would total well over $1,250,000. Work has been started on a five-story reinforced-concrete hotel to cost about $400,000. Construction will be pushed with rapidity and it is expected that the structure will be completed in July, 1918. A large hospital for the Presbyterian Board of Missions has recently been completed at a cost of approximately $150,000. This building is also of fireproof construction throughout, and has modern conveniences and appliances. The Bureau of Public Buildings of the Insular Government now has under construction in San Juan three modern school buildings aggregating a cost of $405,000. This is in addition to a large number of small schools and miscellaneous Government buildings now being built in other parts of the island.

A reinforced-concrete warehouse and office building for the Porto Rico American Tobacco Co. is nearly completed, in SanJuan. This, with the addition of a fifth floor to another of the company's factories, will cost $130,000. A concrete warehouse and office for the West India Co., in Puerta de Tierra, a section of San Juan, is practically complete, at an expenditure of $60,000. Several other smaller office buildings and port and pier improvements are under construction throughout various parts of the city. All these buildings are being constructed by local contractors and (with the exception of the hotel and the warehouse for the West India Co.) all have been designed by local architects.

A survey by United States Engineers of the Snake River, in the Northwest, was inaugurated Aug. 8, at Lewiston, Idaho. There has been no definite plan adopted as to the best method of making the river navigable the year round, but steamboat navigators who are acquainted with the stream hold the view that by the construction of a series of 10 dams, nine of these to be located on the Snake River and one on the Columbia, the rivers between Lewiston and the canal at Celilo can be made navigable the year round for boats up to 400 tons burden. Under this plan, four of these dams would create large electric power, while six would be simply of the lift type and of service only from a steamboat-navigation standpoint.

BARGE CANAL WORK—ALBANY, N. Y.

Contract No. 85

Bids were received by W. W. Wotherspoon, supt. pub. wks., for Contract No. 85, constructing pier, dolphins, etc., at Gowanus Bay, Brooklyn, from (A) Riverside Co., 39 Cortland St.; (B) G. W. Rogers Co., Inc., 29 Bway.; (C) Snare & Triest, Woolworth Bldg., all New York City; (D) Lupfer & Remick, Ellicott Sq., Buffalo. The bids of the 3 lowest bidders were as follows:

	A	B	C
Removal of old material (lump sum)	$50.00	$120.00	$100.00
180 cu.yd. stone filling	1.00	1.80	1.00
365,600 lin.ft. foundation piles	.61	.63	.60
315 fender piles	20.00	26.00	24.00
840 M. ft.b.m. sawed lumber	72.00	86.00	86.00
214 M. ft.b.m. sawed lumber—treated	79.00	96.00	95.00
78,000 sq.ft. surface treatment of timber	.01	.022	.02½
460 cu.yd. third-class concrete	6.00	7.80	7.50
7,717 cu.yd. first-class reinforced concrete	14.75	15.00	14.00
750 cu.yd. sand-fill	.75	1.20	1.15
60 cu.ft. chipping concrete	1.00	2.20	2.00
185 lin.ft. drilling holes in exist. masonry	.50	1.20	1.15
600 lb. rigid metal conduit	.10	.12	.10
69,700 lb. steel castings	.10	.14	.08
6,900 lb. iron castings	.07	.084	.08
644,000 lb. metal reinforcement	.06	.07	.07
550,000 lb. structural steel	.06½	.084	.08
12 spools	125.00	120.00	120.00
70 pile shoes	1.00	2.20	2.00
Extended totals	$509,861	$557,343	$561,146

Contract No. 147

Bids were received by W. W. Wotherspoon, supt. pub. wks., for Contract No. 147, constructing superstructure, substructure and approaches of bascule bridge over Tonawanda Creek on Main and Webster Sts., Tonawanda and North Tonawanda, from (A) Scherzer Rolling Lift Bridge Co., Monadnock Blk., Chicago; (B) Lupfer & Remick, Ellicott Sq.; (C) Lathrop, Shea & Henwood, Ellicott Sq.; (D) Peckham Constr. Co., $273,105, all of Buffalo. The unit bids of the 3 lowest bidders were as follows:

	A	B	C
Plans for Strauss trunnion bascule bridge (lump sum)	$7,200.00	$7,200.00	$8,000.00
5,630 cu.yd. excavation	2.20	2.40	1.00
2,960 cu.yd. forming embankment	.15	.10	.15
1,940 cu.yd. first-class reinforced concrete	14.75	14.00	13.50
1,660 cu.yd. second-class reinforced concrete	12.00	14.40	10.50
870 cu.yd. second-class concreet	8.90	10.80	8.50
740,000 lb. structural steel	.08	.089	.12½
68,300 lb. machinery	.28	.24	.34
119,000 lb. metal reinforcement	.06	.052	.06
1,370 sq.ft. concrete sidewalk	.25	.20	.30
264 lin.ft. sandstone curbing	1.10	.90	1.00
242 sq.yd. brick pavement	3.00	3.00	2.50
388 sq.yd. wood block pavement on plank base	3.00	2.58	3.00
454 sq.yd. wood block pavement on concrete base	3.00	2.68	3.00
620 lin.ft. lattice railing	3.00	3.00	5.60
256 lin.ft. galvanized steel corner bar	.40	.30	.30
2,500 lb. metal duct	.15	.16	.16
7 4 M.F.B.N. Sheeting and bracing	60.00	60.00	72.00
8 8 M.F.B.M. sawed lumber	70.00	75.00	90.00
20 9 M.F.B.M. sawed lumber creosoted	80.00	96.00	96.00
Removing building (lump sum)	10.00	10.00	10.00
Maintaining navigation (lump sum)	350.00	360.00	300.00
Maintaining highway traffic (lump sum)	12,500.00	9,600.00	12,600.00
Operator's house (lump sum)	2,000.00	1,440.00	1,200.00
Plumbing (lump sum)	600.00	600.00	500.00
Electrical equipment (lump sum)	11,500.00	13,200.00	11,000.00
Maintenance accessories (lump sum)	300.00	300.00	250.00
Cofferdams, pumping, etc. (lump sum)	36,000.00	35,500.00	34,000.00
Extended totals	$233,986	$239,821	$257,047

Contract No. 148

Bids were received by W. W. Wotherspoon, supt. pub. wks., Aug. 21, for Contract No. 148, constructing superstructure, substructure and approaches of highway bridge over Lock No. 27 and Clyde River on Leach St., Lyons, from (a) Lathrop, Shea & Henwood, Ellicott Sq. (awarded contract); (B) Lupfer & Remick, Ellicott Sq., both of Buffalo. The unit bids were as follows:

	A	B
11,100 cu.yd. excavation	$0.40	$0.50
23 7 M.F.B.M. sheeting and bracing	72.00	70.00
9,900 cu.yd. forming embankment	.18	.15
70 cu.yd. lining	1.50	1.25
2,140 cu.yd. second-class concrete	9.00	10.50
66 lin.ft. 10-in. vitrified pipe and specials	.60	.65
470 lin.ft. concrete curbing	1.25	1.40
870 sq.yd. waterbound macadam 9 in. thick	1.50	1.50
240 sq.yd. waterbound macadam 6 in. thick	1.20	1.20
83 cu.ft. cutting concrete	3.00	3.50
52 lin.ft. drilling holes in existing masonry	1.50	1.50
33 sq.yd. relaying second-class stone paving	1.20	1.10
720 lin.ft. wooden fence	.35	.40
298,000 lb. structural steel	.094	.09½
2,730 lb. metal reinforcement	.07	.07
5,000 lb. 12-in. cast iron pipe	.05	.05
229 lin.ft. lattice railing	3.60	3.60
34 6 M.F.B.M. sawed lumber (lump sum)	96.00	95.00
Gutter basin (lump sum)	45.00	40.00
Removing superstructure of bridge and the stairway (lump sum)	10.00	10.00
Cofferdams, pumping, tailing and draining (lump sum)	4,200.00	4,200.00
Extended totals	$68,770	$72,096

By an overwhelming majority the citizens of Mobile, Ala., voted on Aug. 13 to authorize the City Commission to arrange a bond issue of $600,000 for the construction of a municipal water terminal. The project as designed comprises concrete wharves, piers and bulkheads, railroad connections to the water front and dredging to a depth of 30 ft. Warehouses are also included in the design but cannot be built within the present appropriation. The work will be in charge of City Engineer Wright Smith.

Minneapolis will spend $1,000,000 in new construction to increase its water supply. Eight filter beds, four of which are under construction now, will be completed about the end of 1918. When Minneapolis began treating its water-supply from the Mississippi River by mechanical filtration, in 1913, it started with 12 filter beds. In 1915 four were added, giving a filtration capacity of 56,000,000 gal. daily. The average consumption was 30,000,000 gal. daily, but during an extended dry period in 1916 the demand crept up to 59,000,000 gal.